



PPHSN LabNet Catalogue

2024 Edition

Updated in June 2024



Compiled by
the Laboratory Strengthening Programme
Public Health Division, Pacific Community



PPHSN LabNet catalogue – 2024 Edition



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Executive Summary

The LabNet Catalogue was developed in 2015 through a culmination of ongoing collaborative work of the Laboratory Strengthening Team within SPC Public Health Division, PIHOA, Laboratory Managers/Directors in L1 Laboratories in PICTs and PPHSN L2 and L3 Reference Laboratories. It provides a summary of key public health diagnostic tests available in L1 Laboratories in 22 PICTs to accurately test and efficiently report on PPHSN priority outbreak prone diseases which includes dengue, measles, rubella, influenza, typhoid, cholera, HIV and STIs. It also provides updated key focal contact addresses of Laboratory Managers in PICTs. The catalogue is updated on an annual basis to provide the latest updates both in public health diagnostic capacities and Laboratory focal points in all L1 Laboratories. The catalogue also provides updated information from L2 and L3 Reference Laboratories which are currently members of the Laboratory Network under PPHSN and provide diagnostic supports on testing and confirmation for L1 Laboratories.

In 2022, through the advice and guidance of SPC PHD Director, Dr Berlin Kafoa, new changes had now been incorporated to the 2022 edition. Clinical diagnostic capacities of L1 Laboratories are now included, and the new edition now includes both Public and Clinical health diagnostic capacities of L1 Laboratories in PICTs.

The following new Sections had been included:

- **Section C:** information on current clinical diagnostic capacities in L1 Laboratories in PICTs;
- **Section D:** information on EQA Providers.
- **Section E:** information on Laboratory External Audit/Assessment.
- **Section F:** Referral and Shipping Information – capturing information on certified IATA Trainers and Shippers; and
- **Section G:** information on Laboratory Information System.

The inclusion of the above sections will provide a quick overview of where L1 Laboratories in PICTs are in terms of diagnostic capacities to address and provide accurate, reliable, and timely Laboratory results to guide effective interventions for both clinical and public health diseases. In addition, information provided in this catalogue will also greatly assist technical and donor partners to envisage where support is needed most.

The document is a “living document” and will be updated on an annual basis therefore we invite your suggestions and recommendations on what best to be captured from a Laboratory perspective to optimize and streamline Laboratory services in all jurisdictions.

The Laboratory Strengthening Team within SPC PHD is indeed very thankful for all the support provided during the compilation of this 2024 LabNet Catalogue by PIHOA, Laboratory Managers and Directors from L1 Laboratories in the region and our PPHSN L2 and L3 Reference Laboratories.

The Laboratory Strengthening Team wishes to acknowledge the support offered by SPC PHD Surveillance Team in the layout and formatting of this Catalogue and assistance in the development of the referral maps for clinical samples referred to L2 and L3 Reference Laboratories for the diagnosis and confirmation of infectious diseases.



The LabNet concept

The idea of LabNet came from the recognition that many Pacific Islands have little or no ready access to public health Laboratory services. LabNet is one of the six (6) services of PPHSN established in April 2000. LabNet provides recommendations and support for verification and identification of pathogens through the current Laboratory network. Existing Laboratory services are traditionally hospital-based and have limited provisions. The **LabNet** concept is described as follows:

- 1. LabNet is a three-tier level network of Laboratories: L1, L2 and L3, where “level” refers primarily to the role of the laboratory in the network and not to its capacity.**
 - L1 laboratories are the laboratories of the PPHSN member countries and territories. This level is the closest to patients and clinicians facing an outbreak alert. L1 Labs collect samples from suspect patients and when possible use screening tests. They should have ready access to L2 or L3 Lab confirmation services for selected diseases.
 - L2 regional laboratories perform the first level of confirmation tests for L1 laboratories. The techniques they run require more training and equipment than those used at L1 laboratories. They are further supported by L3 laboratories. L2 regional laboratories may also serve as L1 laboratories in their country or territory.
 - L3 laboratories are reference laboratories. They are usually internationally recognized laboratories (e.g. WHO collaborating centers), located in the Pacific Rim countries (mainly Australia, New Zealand, and USA). In addition to the L2 disease-specific role, they perform more sophisticated, less urgently needed tests, giving important epidemiological information for the region or in the context of the worldwide surveillance of major diseases (such as dengue virus genotyping, influenza subtyping or *Leptospira* sero grouping).
- 2. LabNet** aims to provide harmonized quality laboratory services with recommendations and technical support provided through the LabNet Technical Working Group. The LTWG is composed of twelve (12) members from regional Laboratory partners and training institutions (CDC, ESR, FCDC, FNU, ILM, IPNC, NRL, PIHOA, PPTC, SPC, VIDRL and WHO) and they contribute to the development and strengthening of human (and animal) health Laboratory services in Pacific Island countries and territories (PICTs).
- 3.** The LabNet Catalogue was developed with the objective of providing information regarding the **LabNet** laboratories and activities at all three levels. Additionally, the catalogue provides guidance on specimen collection and IATA requirements for referral and shipment of samples for priority PPHSN diseases and for emerging diseases such as COVID-19. The catalogue will undergo evaluations and assessments on a routine basis to have this updated, at a minimum, on an annual basis.

The **LabNet Catalogue** is made up of 4 sections:

- Section 1: L1 Laboratories
- Section 2: L2 Laboratories
- Section 3: L3 Laboratories and COVID 19 Laboratory Diagnosis
- Section 4: Key PPHSN Contacts

Each section has a list of all the defined Laboratories, followed by specific details for each country presented following a standard format: A-Laboratory name and contact information; B-testing and referral information for 12 PPHSN relevant diseases; C-referral laboratory and shipping information. Section 3 contains the same information, although in a slightly different format, and with some specific instructions for shipping specimens from countries to the L3 facility.



SECTION 1 - L1 LABORATORY SITES

Country/Territory	Page
American Samoa – LBJ Tropical Medical Center	8
American Samoa – Department of Health Laboratory	12
Cook Islands	15
Federated States of Micronesia - Chuuk	18
Federated States of Micronesia - Kosrae	21
Federated States of Micronesia – Pohnpei	25
Federated States of Micronesia – Yap	28
Fiji – Colonial War Memorial Hospital Laboratory	31
Fiji – Labasa Hospital Laboratory	34
Fiji – Lautoka Hospital Laboratory	37
Kiribati	40
Republic of the Marshall Islands – Majuro	43
Republic of the Marshall Islands – Ebeye	46
Nauru	49
Northern Mariana Islands	52
Niue	55
Republic of Palau	58
Papua New Guinea	61
Samoa	64
Solomon Islands	68
Tokelau	71
Tonga	74
Tuvalu	77
Vanuatu	80
Wallis and Futuna	83

Note: In this section, * indicates a commercial or government Laboratory, not in the PPHSN - LabNet list. These laboratories have been contracted by the country or jurisdiction and it is important to include them in the catalog for a complete understanding of all testing provisions available in the region.



COUNTRY: AMERICAN SAMOA
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name(e)	LBJ TROPICAL MEDICAL CENTER
Pathologist/Laboratory director	Dr Anajane Bontia
Email	Anajane.bontia@lbj.as
Laboratory Manager	Mr. Manasa Lesuma
Address	LBJ Laboratory, Pago Pago American Samoa
E-mail	Manasa.lesuma@lbj.as
Phone	(684) 633 2001/1222, ext : 636
Fax	(684) 633 1200
Sr. Tech/Other Contact	Ms. Seini Biukoto, MLT(ASCP) ^{CM} Microbiology Supervisor
Email	Seine.biukoto@lbj.as
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Chlamydia	Cepheid GeneXpert CT-NG		
Cholera	Culture & AST		
Dengue	NS1 AG, IGM/IGG DENGUE DUO	IGM & IGG	PRIMEX LABORATORY USA
Chikungunya	DONORS ONLY	PCR	PRIMEX LABORATORY USA
Zika	DONORS ONLY	PCR	PRIMEX LABORATORY USA
Gonorrhea	Culture ID & AST Cepheid GeneXpert CT-NG		
HIV	LBJ: AG & ANB RAPID COMBO	DIFFERENTIATION TEST HIV 1 & 2	PRIMEX LABORATORY USA
Influenza	Cepheid GeneXpert (multiplex)-if out of reagents and controls-refer OSOM Rapid Diagnostics QuickVue Rapid	Cepheid GeneXpert (multiplex)	ASG-DOH
SARS-CoV-2 (COVID-19)	Cepheid GeneXpert (multiplex)-if out of reagents & controls- refer ID NOW ACCULA	Cepheid GeneXpert (multiplex) BIOFIRE-Respiratory panel GI panel	ASG-DOH

... / ...



B: PPHSN Target Disease Testing Information (cont'd)

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Leptospirosis	ELIZA KIT	LEPTO IGM	PRIMEX LABORATORY USA
Measles		EIA	PRIMEX LABORATORY USA
Rubella		ANTIBODY IGM/IGG	PRIMEX LABORATORY USA
Syphilis	RPR, TPPA, Titer		
Tuberculosis	Direct smear-ZN stain	GeneXpert Smear Concentration method, NAAT, Culture ID & AST	ASGDOH-Laboratory Diagnostic Laboratory Services (DLS) Hawaii, USA via PIHOA/CDC
Typhoid	Culture ID & AST		
Mpox		PCR	PRIMEX LABORATORY USA

C. Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology -Full Blood count & type of Analyzer -Blood Film Analysis -Coagulation Profile	Sysmex XN-1000 All Hematology profile Blood Film: manual differential Coagulation profile: STAGO STA Compact Max Siemens Clinitek Status+		
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	AU 680 BECKMAN COULTER: All chemistry profile and tumor markers D10 A1C Drug testing for employees and patients	At times when we encounter shipping delays of reagents.	PRIMEX LABORATORY, USA
Microbiology -Blood Culture (automated) -Culture -manual -Identification (automated) -AST (automated and manual) -AST International Guideline -Fungal -Urinalysis (Manual or Automated) BSC Type Gram Stain	BLOOD CULTURE: BACT-ALERT 1 Culture ID & AST: VITEK AST International Guideline: CLSI FUNGAL: KOH for Fungal elements only Bacteriology (Anaerobic ID & AST) Urinalysis: Siemens BSCII (ESCO) Gram Stainer (PREVI MEDPHARM)	Some Bacteriology confirmations Fungal Culture Virology Tests	Diagnostic Laboratory Services (DLS) Hawaii, USA

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C. Clinical Diagnostic Tests (Cont'd)



Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Molecular testing GENEXPERT CT/NG GENEXPERT COV 2, FLUA/B, RSV	GeneXpert Xpress IV - 4 RT-PCR		
Cytopathology -Gynae Cytology -Non-Gynae Cytology	PAP SMEAR		Diagnostic Laboratory Services (DLS) Hawaii, USA
Histology Tissues Biopsies			Diagnostic Laboratory Services (DLS) Hawaii, USA

D. EQA Providers

Institution	Panel name	No.of cycles provided
College of American Pathologist	Hematology PT Chemistry PT Serology PT Urine Analysis PT Blood Transfusion Bacteriology PT Parasitology PT Mycobacteriology PT Respiratory PT GeneXpert CT/NG PT GeneXpert COV2-PT	3 Cycles/ Events 2 Cycles/ Events
PPTC	Blood Transfusion Hematology (LBJ & ASG- DOH) Chemistry (LBJ & ASG- DOH) Serology (LBJ & ASG- DOH) Microbiology (Bacteriology) COVID 19 (LBJ & ASG- DOH)	3 Cycles/ Events
DLS	Microbiology: Blind slide Re-checking DLS – PT GeneXpert TB Panel (ASG-DOH only)	Once/Year 2 Cycles/ Events

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/others)	Assessor/Agency conducting the Audit
2023	CLIA	CLIA'88, CMS
2022	AFB ASESMENT TOOL	PIHOA RLC

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F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	*Diagnostic Laboratory Services Hawaii, USA *Primax Laboratory, CA, USA *Hawaii State Laboratory, Hawaii, USA	
IATA certified Trainers	Yes Number Certified Trainers: 1 Date Training License Expires: 01/2026	No
IATA certified Shippers	Yes Number Certified Shippers: 4 Date Shipping License Expires: 14/7/2024	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Hawaiian Airlines	

G. Laboratory Information System

Laboratory Information System (LIS)	In process
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COUNTRY: AMERICAN SAMOA
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name(e)	Department of Health (DOH) Laboratory
Laboratory Main Contact	Ms. Annette F. Ilmaleota, MLT, AMT
Address	American Samoa DOH Clinical Laboratory
E-mail	annette.ilmaleota@doh.as
Phone	(684) 699 6380 ext 1129
Sr. Tech/Other Contact	Maopa L Raikabula Laboratory Technologist Romson N
Email	maopa.lewabeci@doh.as / romson.nuake@doh.as
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Chlamydia	PCR - Xpert CTNG		
Cholera	Biofire – GI panel	Typing and sequencing	Hawaii state Laboratory
Dengue	Dengue (NS1)	PCR	Diagnostic Laboratory Services, Inc. (DLS) in Hawaii or Hawaii state Laboratory
Chikungunya		PCR	Diagnostic Laboratory Services, Inc. (DLS) in Hawaii's or Hawaii state Laboratory
Zika		PCR	Diagnostic Laboratory Services, Inc. (DLS) in Hawaii or Hawaii state Laboratory
Gonorrhoea	PCR- Xpert CTNG		
HIV	RDT Antibody test	CD4/Viral Load/Genotyping	Diagnostic Laboratory Service (DLS) - Hawaii
Influenza	- PCR -Xpert (4plex) - PCR – BioFire FilmArray RP panel		
SARS-CoV-2 (COVID-19)	PCR-Xpert (4plexx) PCR – Biofire FilmArray RP panel	Sequencing	Hawaii state Laboratory
Leptospirosis		PCR	Diagnostic Laboratory Services, Inc. (DLS) is Hawaii's or Hawaii state Laboratory
Measles	ELISA	PCR	CDC
Rubella	ELISA	PCR	CDC

... / ...



B: PPHSN Target Disease Testing Information (cnt'd)

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Syphilis	TPPA/RPR		
Tuberculosis	PCR -Xpert (MTB/RIF)	Culture AFB Stain	Diagnostic Laboratory Services, Inc. (DLS) LBJ tropical medical center – American Samoa
Typhoid	Biofire – GI panel	Culture	LBJ tropical medical center – American Samoa
Monkey pox		PCR	Hawaii state Laboratory

C. Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology -Full Blood count & type of Analyzer -Blood Film Analysis -Coagulation Profile	XP300 x 2	Blood Film Analysis/ Coagulation Profile	LBJ tropical medical center – American Samoa
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumor Markers	DCA VANTAGEV ANALYSER (A1C) PICCOLO XPRESS CHEMISTRY ANALYZER	Tumor Markers Cardiac Enzymes	LBJ tropical medical center – American Samoa
Microbiology -Urinalysis (Manual or Automated) -Blood Culture (manual or automated) -Culture -Identification (manual or automated) -AST (manual or automated) -AST International Guideline used -Fungal testing	CLINITEK (Urine dipstick test)	Culture/AST/Blood culture /Fungal testing	LBJ tropical medical center – American Samoa
Molecular testing -RT-PCR -HPV -HBV Viral Load	Cepheid Gene Xpert - 2x 16 module - 2x 4 modules ABI 7500	HPV HBV Viral Load	LBJ tropical medical center – American Samoa
Cytopathology -Gynae Cytology -Non-Gynae Cytology		Gynae Cytology Non-Gynae Cytology	LBJ tropical medical center – American Samoa
Histology			

... / ...



D. EQA Providers

Institution	Panel name	No.of cycles provided
API	Hematology	3
	Microbiology (CTNG/RSP/GIP/Parasitology)	3
	Mycobacteriology	2
	(XPTMTB/RIF) Urinalysis	3
	Serology/Immunology	3
	Molecular (SARS/FLU/RSV)	2
PPTC	Serology/Immunology	3
	Biochemistry	3
	Molecular (COVID)	3
DLS	GeneXpert MTB/RIF	2

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/others)	Assessor/Agency conducting the Audit
2023- August	CLIA- Clinical Laboratory Improvement Amendments	CMS- Center for Medicare & Medicaid services

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	*Diagnostic Laboratory Services Hawaii, USA *Hawaii State Laboratory, Hawaii, USA *CDC Laboratory	
IATA certified Trainers	Number Certified Trainers: 3 Date Training License Expires: October 28th 2024	YES
IATA certified Shippers	Number Certified Shippers: 3 Date Training License Expires: October 28th 2024	YES
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Hawaiian Airlines/CLS Cargo	

G. Laboratory Information System

Laboratory Information System (LIS)	NONE
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COUNTRY: COOK ISLANDS
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name(e)	RAROTONGA HOSPITAL LABORATORY
Laboratory Main Contact	Mr. Douglas Tou – Laboratory Manager
Email	douglas.tou@cookislands.gov.ck
Address	Ministry of Health P. O. Box 109, Rarotonga, Cook Islands _
Phone/Fax	(682) 22664 / (682) 22670
Sr. Tech/Other Contact	Ms Theresa Tatuava
Email	Senior Med Laboratory Technologist, Quality Coordinator theresa.tatuava@cookislands.gov.ck
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Chlamydia	GeneXpert DNA Probe	No, unless a police or coroner case	LabPlus Auckland, NZ
Cholera	Culture/ID	Yes - Serotyping	LabPlus Auckland, NZ
Dengue	SD Deng NS1 Ag+Ab Comb Rapid Device 25T	Yes	LabPlus Auckland, NZ
Chikungunya	No	yes	LabPlus Auckland, NZ
Zika	No	Yes	LabPlus Auckland, NZ
Gonorrhea	Gram stain, culture, Beta lactamase test GeneXpert-DNA Probe	No	N/A
HIV	Determine HIV (100T), HIV 1+2 Rapid Test Insti, HIV 1+2, Unigold (20s)	No	N/A
Influenza	Rapid Test InFlu, PCR Biofire	Yes	ESR/NCBID Wellington
SARS-CoV-2	Yes – Gene Xpert/Biofire/ Manual extraction- CFX 96	Yes – Whole Genome sequencing	ESR NZ
Leptospirosis	No	Yes	LabPlus Auckland, NZ
Measles	No	Yes	LabPlus, Auckland, NZ
Rubella	No	Yes	LabPlus Auckland, NZ
Syphilis	Yes- RPR ,Bioline Syphilis 30, SD Duo HIV/Syphilis	Yes/Confirmation Only	LabPlus Auckland, NZ
Tuberculosis	Yes Direct smear-ZN stain/ GeneXpert – DNAprobe	No	LabPlus NZ
Typhoid	Culture/ID	Yes	LabPlus, Auckland, NZ
Mpox	No	? yes	? VIDRL or ESR NZ

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C. Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology -Full Blood count & type of Analyser -Blood Film Analysis -Coagulation –INR,PT APTT ,D-Dimer, Fibrinogen – Automated/manual Analyser XP100, XN100, CA 660- Sysmex	Yes Yes	Yes Blood film confirmation.	LabPlus Auckland, NZ
Biochemistry Analysers Cobas c311, E411 -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	Yes Yes Yes Yes Yes Yes PSA,Beta HcG,AFP,	Others such as CEA, CA etc referred to Laboratory Plus	LabPlus Auckland, NZ
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Manual Automated – BD FX 40 Manual Manual Manual Yes No – only stain for fungal elements Yes Yes		LabPlus Auckland, NZ
Molecular testing -RT-PCR -HB Viral Load	Yes Yes None Yes- GeneXpert	HPV	ESR NZ/VIDRL VCS – Victoria Cytology Services Australia Ltd
Cytopathology -Gynae Cytology -Non-Gynae Cytology	No No No	Yes	VCS – Victoria Cytology Services Australia Ltd LabPlus NZ
Histology	No	Yes	LabPlus NZ

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D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC NZ	PPTC EQA Microbiology PPTC EQA Serology PPTC EQA Blood Bank PPTC EQA Hematology PPTC EQA Biochemistry PPTC EQA COVID-19	3

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
2023	SLIPTA	PPTC-Russel Cole

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	*Auckland LabPlus NZ *VCS Ltd Australia *ESR – Wellington/NZ *VIDRL – Melbourne/Australia	
IATA certified Trainers	Yes...Number of Certified Trainers: One Date Training License Expires: Oct 2023	No
IATA certified Shippers	Yes...Number Certified Shippers: 9 Date Shipping License Expires: Oct 2025	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Air NZ	

G; Laboratory Information System

Laboratory Information System (LIS)	Yes
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COUNTRY: FEDERATED STATES OF MICRONESIA - CHUUK
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name	CHUUK STATE HOSPITAL LABORATORY
Laboratory Main Contact	Mr. Yoichy Aut - Laboratory Supervisor
Address	Chuuk State Hospital P.O.Box 400, Weno, Chuuk, FSM 96942
E-mail Phone	yaut@fsmhealth.fm
Fax Sr. Tech/Other Contact	(691) 330 2220/2216(17)
E-mail Phone	(691) 330 2220
Fax	Ms. Lisa Barrow - FSM National Laboratory Coordinator lbarrow@fsmhealth.fm (691) 320 8300 (691) 320 8460
Laboratory Testing Performed	General Laboratory testing, limited PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Chlamydia	GeneXpert (CT/NG)	NO	N/A
Cholera	Microscopy, culture, and sensitivity	Yes/ subtyping	Hawaii Public Health Laboratory (to be confirmed)
Dengue	SD NS1/IgM/IgG	Serology/PCR	QUT, Australia, GPHL
Chikungunya			
Zika			
Gonorrhea	Microscopy, culture, Genexpert	No	N/A
HIV	Determine, confirmatory algorithm, Genexpert, Viral load	CD4+ count	Pohnpei state Hospital
Influenza	Antigen testing A/B	PCR	HPHL/GPHL
SARS-CoV-2			
Leptospirosis	SD IgM/IgG	Serology/PCR	QHFSS
Measles	No	yes	Hawaii Public Health Laboratory /GPHL (to be confirmed)
Rubella	No	No	N/A
Syphilis	RPR, titre, Determine syphilis TP	No	N/A
Tuberculosis	Direct smear-ZN stain GeneXpert	Culture, ID, sens	Diagnostic Laboratory Services Honolulu-Hawaii, USA
Typhoid	M/C/S	Yes/subtyping	Hawaii Public Health Laboratory (to be confirmed)
Monkeypox			



C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Yes Sysmex XN 450 Yes Yes	NO NO NO	NA NA NA NA
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumor Markers	COBAS C 111 Yes Yes Yes Yes Yes Yes NO	NO NO NO NO NO NO NO	NA NA NA NA NA NA NA
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Yes Manual and Auto Yes manual Yes manual Manual NO NO NO NO NO NO	NO NO NO NO NO NO NO NO NO	NA NA NA NA NA NA NA NA NA
Molecular testing -RT-PCR -HPV -HBV Viral Load	GENE EXPERT 4 Modules GENE EXPERT16 MODULE NO HPV NO HBV Viral Load	NO NO NO	NA NA NA
Cytopathology -Gynae Cytology -Non-Gynae Cytology	NO NO	NO NO	NA NA
Histology	NO	NO	NA

D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC	Chemistry	2
	Molecular	1
PPTC	SEROLOGY	1
	Microbiology	1
PPTC	BLOOD BANK	1
	Hematology	1

... / ...



E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)		
IATA certified Trainers	Yes. Number Certified Trainers:1 Date Training License Expires:October 2024	
IATA certified Shippers	Yes. Number Certified Shippers: 2 Date Shipping License Expires: April 13th,2024	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	United Airline, and	

G. Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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COUNTRY:
LABNET DESIGNATION:

FEDERATED STATES OF MICRONESIA -
KOSRAE
L1



A: Contact/General Information

Laboratory Name	KOSRAE STATE HOSPITAL LABORATORY
Laboratory Main Contact	Ms. Aralai N Tuione-Laboratory
Address	Manager Kosrae State Hospital P.O. Box 127 Kosrae, FSM 96944
E-mail	atuione@fsmhealth.fm
Phone	(691) 370 3012/3006 (691) 970 8580
Fax	None
Sr. Tech/Other Contact	Ms. Margaret Baekalia FSM National Laboratory Coordinator
E-mail	MBaekalia@fsmhealth.fm
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Chlamydia	Bioline RDT Chlamydia Xpert CTNG test	No	N/A
Cholera	No	Culture ID	Hawaii Public Health Laboratory
Dengue	SD NS1/IgM/IgG Dengue Duo	PCR	Guam Public Health Laboratory. Hawaii Public Health Laboratory
Chikungunya	No	Yes	Guam Public Health Hawaii Public Health Laboratory.
Zika	No	Yes	Guam Public Health Hawaii Public Health Laboratory
Gonorrhea	Grams Screening Xpert CTNG test	No	N/A
HIV	RDT HIV/Syphilis Duo Determine HIV-1/2	CD 4 count Viral load	Hawaii Public Health Laboratory
Influenza	BD Veritor Rapid Flu A+B Biofire Filmarray panel GXpert-SARS-COV 2/Flu/RSV	PCR	Hawaii Public Health Laboratory Guam Public Health Laboratory
SARS-CoV-2	Binax ID NOW Rapid Antigen Testing Antibody testing Biofire FilmArray panel GeneXpert –SARS-CoV 2 & SARS-COV 2/Flu/RSV	Genome Sequencing	Hawaii Public Health Laboratory

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B: PPHSN Target Disease Testing Information (cont'd)

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Leptospirosis	RDT -SD IgM/IgG	MAT	Hawaii Public Health Laboratory
Measles	No	EIA	Hawaii Public Health Laboratory Guam Public Health Laboratory
Rubella	No	EIA	Hawaii Public Health Laboratory Guam Public Health Laboratory
Syphilis	RPR, Titre, Determine syph TP RDT-HIV/Syphilis Duo	No	N/A
Tuberculosis	AFB Smear Microscopy, Xpert MTB/RIF Ultra Assay	Culture, ID	Diagnostic Laboratory Services Honolulu-Hawaii, USA
Typhoid	IgG/IgM antibody Testing	Yes	Hawaii Public Health Laboratory (to be confirmed)
Mpox	No	Yes	Hawaii Public Health Laboratory

C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Hematology - Full Blood count & type of Analyzer - Blood Film Analysis - Coagulation Profile	Sysmex XN 450(6 part Diff) Manual Peripheral smear reporting Coagulation-POC testing CoaguCheck XS PT Test and manual PT/APTT testing	Blood film confirmation	Pohnpei State Hospital- Telepathology
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumor Markers	Analyzers Roche Cobas C111 FUJI DRI-CHEM Chemistry (Dry chemistry analyzer) 9180 Electrolyte Analyzer DCA Vantage 2000 Biomerieux mini VIDAS Test: LFTs, RFTs, Lipid Profiles, Glucose HBA1C Cardiac Enzymes-CK-MB/Troponin I Fertility-HCG Thyroid-TSH/T4/T3 Tumor markers Tests-(ALP)Alpha fetoprotein, OC 125,PSA and CEA	No	N/A

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C.1 Clinical Diagnostic Tests (con't)

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) -AST (manual or automated) -AST International Guidelines used -Fungal testing -Water testing -Food Testing	Microbiology-Basic microbiology Urine analysis-manual Uri spec 10G/microscopy Blood culture-BacT/Alert Fungal testing-KOH/Grams No water testing No food testing Other equipment: Blood Plus, -70 degree Celsius freezer, Incubator, Autoclave.	No	N/A
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture - -Identification (manual or automated) -AST (manual or automated) -AST International Guidelines used -Fungal testing -Water testing -Food Testing	Microbiology-Basic microbiology Urine analysis-manual Uri spec 10G/microscopy Blood culture-BacT/Alert Fungal testing-KOH/Grams No water testing No food testing Other equipment: Blood Plus, -70 degree Celsius freezer, Incubator, Autoclave.	No	N/A
Molecular testing -RT-PCR -HPV -HBV Viral Load	Xpert SARS-CoV-2/Flu/RSV assay, Abbott ID NOW, BIOFIRE FILMARRAY panel, BD Veritor Plus System. No HPV and No HBV Viral load	No	N/A
Cytopathology -Gynae Cytology	Cytopathology Gynae-Pap smear collection	Yes	FSM Telepathology-
-Non-Gynae Cytology	Non Gynae		Pohnpei
Histology	Histology biopsy	Yes	FSM Telepathology- Pohnpei

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D. EQA Providers

Institution	Panel name	No.of cycles provided
Pacific Pathology Training Center (PPTC) New Zealand	Hematology, Serology, Biochemistry, Blood Bank, HbA1C, Endocrine Tests and Molecular Panel.	3 Cycles in one year
Diagnostics Laboratory Services-Hawaii	AFB Proficiency Testing Blind Slide Xpert TB Proficiency	Annually Twice a year (Part A & Part B)

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
None	None	N/A

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	Guam Public Health Laboratory/Hawaii Public Health Laboratory CDC relevant reference Laboratory/oratories
IATA certified Trainers	Number Certified Trainers:2 Date Training License Expires: 10/28/2024
IATA certified Shippers	Number Certified Shippers:4 Date Shipping License Expires:08/05/2024
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	United Airlines and Asia Pacific Airlines(APA)

G: Laboratory Information System

Laboratory Information System (LIS)	Sysmex HCLABORATORY
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COUNTRY:
LABNET DESIGNATION:

FEDERATED STATES OF MICRONESIA -
POHNPEI
L1



A: Contact/General Information

Laboratory Name	POHNPEI STATE HOSPITAL LABORATORY
Laboratory Main Contact	Mr. Herbert Johnny – Laboratory Supervisor
Address	Pohnpei State Hospital Kolonja, Pohnpei FSM 96941
E-mail	hjohnny@fsmhealth.fm
Phone	(691) 320 2214
Fax	(691) 320 5394
Sr. Tech/Other Contact	Ms. Margaret May Baekalia – Acting FSM National Laboratory Coordinator
E-mail	MBaekalia@fsmhealth.fm
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Chlamydia	Rapid Antigen / PCR (GeneXpert)	No	N/A
Cholera	Microscopy, culture and sensitivity	Yes/ subtyping	Hawaii Public Health Laboratory
Dengue	SD NS1/IgM/IgG	Serology/PCR	Hawaii Public Health Laboratory, GPHL
Chikungunya		No	N/A
Zika		No	N/A
Gonorrhea	Microscopy, culture PCR (GeneXpert)	No	N/A
HIV	Determine, confirmatory algorithm, Viral load	No	N/A
Influenza	PCR- Biofire,	PCR	GPHL, HPHL (sentinel surveillance referred)
SARS-CoV-2	Rapid Antigen/ PCR	Confirmation	Hawaii State Laboratory
Leptospirosis	SD IgM/IgG	Serology/PCR	HPHL
Measles	No	yes	Hawaii Public Health Laboratory
Rubella	No	No	HPHL
Syphilis	RPR, titre, Determine syph TP	No	N/A
Tuberculosis	Direct smear-ZN stain GeneXpert MTB/Rif	Culture, ID, sensi	Diagnostic Laboratory Services Honolulu-Hawaii, USA
Typhoid	Presumptive culture	No	N/A
Monkeypox	No	No	N/A



C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology -Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	- KX21N Sysmex Analyzer - No - INR/ APTT-Coagulation	No	N/A
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	HITACHI COBAS C311 (ROCHE) + COBAS C111 (pack up) + DCA Vantage (A1C & Microalbumin - Renal Function - LFTs - Electrolytes - Cardiac Enzyme - Lipid Profile - Uric Acid - Amylase - Glucose, etc	No	N/A
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing Other equipment	Urine Analyzer – Clarity Urocheck 120 Microscopic Urine/ O&P - Blood Culture (Bact/Alert System) - Identification manual - Fungal testing BSC II 1687-600/120F, Fume Hood (Safefast Elite 209S), autoclave	No	N/A
Molecular testing -RT-PCR -HPV -HBV Viral Load	ABOIT ID NOW, GeneXpert IV - SARS-Cov-2 - Flu RFE - GC/ CT - Viral Load	Yes	GPHL/ Hawaii State Laboratory.
Cytopathology -Gynae Cytology -Non-Gynae Cytology	-Pap smear -Body fluids (Basic Stains)	- Confirmation	Nikon Memorial Hospital - Japan
Histology	-H&E Stains (Basic Stains)	-Special Stains Immuno-Chemistry Test	Nikon Memorial Hospital - Japan

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D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC	Hematology, Chemistry, Blood Bank, Serology (STIs), Microbiology	Two (2) per Department/ Year
RCPA (Cytology)		4 cycles

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)		
IATA certified Trainers	Yes. Number Certified Trainers: 1 Date Training License Expires: 2024	
IATA certified Shippers	Yes. Number Certified Shippers: 3 Date Shipping License Expires: 8/2024	
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory		

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) HCLABORATORY (new LIS) still in Progress
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COUNTRY: FEDERATED STATES OF MICRONESIA - YAP
LABNET DESIGNATION: L1

A: Contact/General Information

Laboratory Name	YAP MEMORIAL HOSPITAL LABORATORY
Laboratory Main Contact	Ms. Daisy Phal – Laboratory Manager Yap
Address	Memorial Hospital P. O. Box 148 Colonia, Yap FSM 96943
E-mail	dphal@fsmhealth.fm
Phone Fax	(691) 350 2110/3446
Sr. Tech/Other Contact	Ms. Margaret May Baekalia- Acting Coordinator
E-mail	mbaekalia@fsmhealth.fm
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Chlamydia	GeneXpert	No	N/A
Cholera	Microscopy, culture and sensitivity	Yes/ subtyping	GPHL (to be confirmed)
Dengue	SD NS1/IgM/IgG	Serology/PCR Dry Spot	Hawaii State Laboratory, GPHL (to be confirm and subtype) ILM in French Polynesia
Chikungunya		Yes	GPHL & HSL (to be screened; confirm at CDC)
Zika		Yes	GPHL (to be screened; confirm at CDC/WHO)
Gonorrhea	Microscopy, culture, GeneXpert	No	N/A
HIV	Determine, confirmatory Algorithm; Viral load on GeneXpert	CD4 count	Diagnostic Laboratory Services Hawaii, USA
Influenza	Alere BinaxNOW Influenza A & B Card Influenza A & B GeneXpert Influenza A,B&RSV Biofire	Yes/subtyping PCR ABI 7500 by Life Technologies	GPHL
SARS-CoV-2	BinaxNOW & Flowflex Ag Rapid Test GeneXpert PCR; Biofire Film Array	Yes/variant typing	Hawaii State Laboratory Hawaii, USA & GPHL
Leptospirosis	SD BioLine Leptospira IgM	No	N/A
Measles	No	Yes	GPHL (to be confirmed)
Rubella	No	Yes	GPHL (to be confirmed)
Syphilis	RPR, titre, Determine syphilis TP	No	N/A
Tuberculosis	Direct smear-ZN stain GeneXpert MRTB Ultra	Yes, Culture, ID, sensi	Diagnostic Laboratory Services Honolulu-Hawaii, USA
Typhoid	SD BioLine Salmonella typhi IgG/IgM Presumptive culture	Yes	Hawaii Public Health Laboratory (to be confirmed)
Monkeypox	No	Yes	Hawaii State Laboratory Hawaii USA

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C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation profile (PT/INR)	Sysmex XS1000i & backup Sysmex Poche- 100i, ABX Pentra 60 C+ Haematology Analyzer, HemoCue WBC Differential Analyzer, H&H Analyzer. Peripheral smear manual CoaguCheck XS System	Yes	DLS confirm diagnosis
Biochemistry -RFTs -RBS-HbA1c -LFTs -Cardiac Enzymes (Troponin I) -Lipid Profile -Tumour Markers	Vitros350 chemistry analyzer OneTouch Ultra LifeScan A1c Analyzer - DCA2000+, i-Stat miniVidas Biomerieux	Yes	DLS for confirmation diagnosis
Microbiology -Urinalysis (manual or automated) -Blood Culture (manual or automated) -Culture -Identification (manual or automated) -AST (manual or automated) -AST International Guidelines used -Fungal testing -Water testing -Food Testing	All microbial testing are manual at present; No fungal, water and food testing at present Blood Culture: Bact/Alert 3D avaiLaboratoryle BSC II – CLYDE-APAC	Yes	DLS for confirmation
Molecular testing -RT-PCR -HPV -HBV Viral Load	GeneXpert, Biofire Filmarray Torch. HPV and HBV viral load	Yes	DLS for confirmation
Cytopathology -Gynae Cytology -Non-Gynae Cytology	Cytopathology	Yes	Telehistopathology Laboratory, Pohnpie FSM
Histology	Histology	Yes	Telehistopathology Laboratory, Pohnpie FSM

D. EQA Providers

Institution	Panel name	No.of cycles provided
Pacific Pathology Training Centre based in NZ	Hematology, Serology, Microbiology, Chemistry, Blood transfusion, COVID-19	3-cycle per annum
Diagnostic Laboratory Services based in Hawaii	AFB Proficiency panel, Blind Slide Recheck Expert TB Proficiency	Annually Twice a year (Part A and Part B)

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E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
NONE	SLIPTA	N/A

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	GPHL, HSL and CDC/WHO Relevant Reference Laboratoryoratories	
IATA certified Trainers	Yes. Number of Certified Trainers 3 Date Trainer License Expires: Oct.2024	No
IATA certified Shippers	Yes. Number Certified Shippers: 4 Date Shipping License Expires: Oct.2024..	No

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with Equipment & directly into HIS) Yes (LIS to Equipment only) – A new LIMS needs to do some maintenance and upgrade. Plan for site visit but no definite dates
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COUNTRY:
LABNET DESIGNATION:

FIJI
L1



A: Contact/General Information

Laboratory Name	COLONIAL WAR MEMORIAL HOSPITAL LABORATORY
Chief Pathologist	Dr Litia Tudravu
Address	Pathology Laboratory, Colonial War Memorial Hospital
E-mail	litiatudravu@gmail.com or litia.tudravu@govnet.gov.fj
Phone	(679) 3313444
Fax	N/A
Laboratory Superintendent Contact	Mr Ravendra Prasad
E-mail	Revendra.prasad@gmail.com
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Chlamydia	No	No	
Cholera	No	No	
Dengue	Yes		
Chikungunya	No	Yes	Fiji CDC
Zika	No	Yes	Fiji CDC
Gonorrhea	Yes		
HIV	Yes		
Influenza	No	Yes	Fiji CDC
SARS-CoV-2	Yes		
Leptospirosis	Yes		
Measles	No	Yes	Fiji CDC
Rubella	No	Yes	Fiji CDC
Syphilis	Yes		
Tuberculosis	Yes		
Typhoid	Yes		
Mpox	No	Yes	Fiji CDC

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C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Hematology -Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Yes – XN-1000 BF – Yes Coagulation - yes		
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumor Markers	Yes		
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Manual Both Yes Both Both CLSI Fungal – basic testing No No	No No	
Molecular testing -RT-PCR -HPV -HBV Viral Load	No No No	Yes	Fiji CDC
Cytopathology -Gynae Cytology -Non-Gynae Cytology	Yes Yes		
Histology	Yes		

D. EQA Providers

Institution	Panel name	No. of cycles provided
RCPA	Biochemistry, Blood Bank, Haematology, Serology, Microbiology, Anatomical Pathology	Quarterly
PPTC	Biochemistry, Blood Bank, Haematology, Serology, Microbiology, Anatomical Pathology	Quarterly

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E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
6/11/2023	SLIPTA	Simione Turaganiwai, Pacific Community (SPC)
17/11/ 2023	SLIPTA	Philip Wakem, Filipo Faiga, PPTC

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)		
IATA certified Trainers	Yes..... Number Certified Trainers:1. Date Training License Expires: 20/10/2025	No
IATA certified Shippers	Yes.....Number Certified Shippers: 3. Date Shipping License Expires:.....30/06/2024	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Fiji Airways	

G: Laboratory Information System

Laboratory Information System (LIS)	✓ Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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COUNTRY:

FIJI

LABNET DESIGNATION:

L1



A: Contact/General Information

Laboratory Name	LABASA HOSPITAL LABORATORY
Pathology registrar	Dr Rosalind Bolevakarua
Email	rosalindb652@gmail.com
Laboratory Main Contact	Makarita Baleinadogo
Address	Labasa Hospital, PO.Box 577 Labasa
Email	mbaleinadogo@govnet.gov.fj
Phone	(679) 8811444
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Chlamydia	No	Yes	Mataika House
Cholera	yes	No	
Dengue	Yes	No	
Chikungunya	No	Yes	Mataika House
Zika	No	Yes	Mataika House
Gonorrhoea	Yes	No	
HIV	Yes	No	
Influenza	No	Yes	Mataika House
SARS-CoV-2	Yes	No	
Leptospirosis	Yes	No	
Measles	No	Yes	Mataika House
Rubella	No	Yes	Mataika House
Syphilis	Yes	No	
Tuberculosis	Yes	No	
Typhoid	Yes	No	
Mpox	No	Yes	Mataika House/VIDRL

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C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Yes	-HB Electrophoresis -Compliment studies -Coagulation factor studies -Factor assays	LabPlus
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	Yes No	Yes	CWMH/Lautoka
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Yes No No	Yes Yes	Mataika House Mataika House
Molecular testing -RT-PCR -HPV -HBV Viral Load	GeneXpert	Yes Yes	Mataika House
Cytopathology -Gynae Cytology -Non-Gynae Cytology	No No	Yes Yes	CWMH
Histology	Yes		

D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC	Hematology, Serology, Blood Bank, Biochemistry, Microbiology, Molecular COVID 19	4 cycles

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D. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
February 6 th 2019	WHO Minimum Std	Ravendra Prasad. LS CWMH

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)		
IATA certified Trainers	Yes. Number certified Trainers: 1 Date Training License Expires: 2024	No
IATA certified Shippers	Yes. Number certified Shippers: 8 Date Shipping License Expires: 30/ 09/ 2024	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	CDP courier/ EMS courier Fiji Airways	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No, but in planning process
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COUNTRY: FIJI
LABORATORY DESIGNATION: L1



A: Contact/General Information

Laboratory Name	LAUTOKA HOSPITAL LABORATORY
Laboratory Main Contact	Mr Charles Wetzel
Address	Aspen Medical Lautoka Hospital
E-mail	(679) 660399
Phone / Fax	
Senior. Tech/Other Contact	Ms Rejieli Bari
E-mail	rejieli.bari@govnet.gov.fj
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Chlamydia	No	Yes	Mataika House
Cholera	No	Yes	Mataika House
Dengue	Yes		
Chikungunya	No	Yes	Mataika House
Zika	No	Yes	Mataika House
Gonorrhea	No	Yes	Mataika House
HIV	Yes		
Influenza	No	Yes	Mataika House
SARS-CoV-2	Yes		
Leptospirosis	Yes		
Measles	No	Yes	Mataika House
Rubella	No	Yes	Mataika House
Syphilis	Yes		
Tuberculosis	Yes		
Typhoid	Yes		
Mpox	No	Yes	Mataika House

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C: Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Hematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	XN 1000 -FBC -Retics -ESR Manual staining -Bone marrow (Special Stains) -Leishman (bloodfilm) Manual method -PT/ INR -APTTK -FDP -D-dimer Semen Analysis	-HB Electrophoresis -Compliment studies -Coagulation factor studies -Factor assays	LabPlus
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	BS800M1 Cobas e411	-Chromosomal studies -ANA, DsDNA -Polucythemic studies -ENA -Catocholamine -Protein Electrophoresis -Iron Studies	LabPlus
Microbiology -Urinalysis (manual or automated) -Blood Culture (manual or automated) -Culture -Identification (manual or automated) -AST (manual or automated) -AST International Guidelines used -Fungal testing -Water testing -Food Testing	Manual BacTAlert Manual culture Manual Manual KirbyBauer Manual Mataika	SARI/ ARI/ ILI Pos. NPS ≥ 10 cells CSF SPN Pos TB Sputum New Bacteria For Vitek confirmation	Mataika House Twomey Hospital CWMH Melbourne, Australia
Molecular testing -RT-PCR -HPV -HBV Viral Load	PCR (SarsCov2 & MTB) Screening at Cytology		Mataika House
Cytopathology -Gynae Cytology -Non-Gynae Cytology	PapSmear Aspirates Body Fluids & Cell block		CWMH
Histology	1. H&E stain 2. Stain- ZN, Fungal, Retics & PAS 3. Immunohistoc hemistry		CWMH

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D: EQA Providers

Institution	Panel name	No.of cycles provided
PPTC	Hematology, Serology, Blood Bank, Biochemistry, Microbiology, Molecular COVID 19, Anatomical Pathology	3 cycles

E: Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
February 6 th 2019	WHO Minimum Std	Ravendra Prasad. LS CWMH

F: Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)		
IATA certified Trainers	Yes. Number certified Trainers: 1. Date Training License Expires: 17/09/2021	No
IATA certified Shippers	Yes. Number certified Shippers: 8 Date Shipping License Expires: 30/ 09/ 2024	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	CDP courier/ EMS courier Forwarder: EMS/ DHL, W & G- Fiji Airways	
Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned	



COUNTRY:

KIRIBATI

LABNET DESIGNATION:

L1



A: Contact/General Information

Laboratory Name KIRIBATI HEALTH LABORATORY

Laboratory Contact Name(s)/ Pathologist Dr Zach Tewareka

Address Tungaru Central Hospital, Ministry of Health, Kiribati

Phone (686) 74028100

E-mail jackiribati@gmail.com

Chief of Laboratory service Ms. Rosemary Tekoaau

Address Ministry of Health & Medical Services

P. O. Box 268, Bikenibeu, Tarawa, Kiribati

E-mail rosemarytek@gmail.com

Phone (686) 74028100 Ext 236 / (686) 28568 / 28152

Sr. Tech/Other Contact Ms Bineta Ruaia - Acting Deputy Chief of Laboratory Services

E-mail binetaLaboratory@gmail.com

Phone (686) 74028100 Ext 237

Laboratory Testing Performed All general Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Chlamydia	No	Yes	Fiji Centre of Disease Control
Cholera	Culture-ID, serotype,	No	N/A
Dengue	Yes	Serotyping	IPNC, WHO Arbovirus Reference Centre, Brisbane Australia
Chikungunya	Yes, Serology	Yes - confirmation	Fiji Centre for Disease Control
Zika	No	Yes	Fiji Centre for Disease Control
Gonorrhea	Culture-ID	No	N/A
HIV	Determine, Unigold, Insti CD4 count Viral Load GenXpert	No	N/A
Influenza	No but in the past with Fluorescent Stain	GeneXpert Trioplex Test	WHO Influenza Centre, Australia
SARS-CoV-2	Yes	GeneXpert Trioplex Test, RAT Kit	WHO Influenza Centre, Australia
Leptospirosis	Yes	Yes	Suva Private Hospital Fiji
Measles	No but plan to use RT-PCR	Yes	VIDRL Melbourne, AU

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B: PPHSN Target Disease Testing Information (cont'd)

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Rubella	No	Yes	VIDRL Melbourne, AU
Syphilis	Determine-TPHA, RPR TITRATION TPHA	No	
Tuberculosis	Direct smear-ZN stain GeneXpert MTB/RIF	Limited culture/ID, sensi	IMVS Laboratory Adelaide, AU
Typhoid	Culture-ID, serotype	No	N/A
Mpox	No	Yes	

C: Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology -Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Yes Swelaboratory and Mindray Yes Yes	No No No	
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	Yes Yes Yes Yes Yes Yes Yes	All Biochemistry tests should be referred if machine is down or stock out	Queensland Pathology, Brisbane, Australia
Microbiology -Urinalysis (manual or automated) Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Yes Yes Yes Yes Yes - manual CLSI Yes Yes Yes - Limited	Yes	None
Molecular testing -RT-PCR -HPV -HBV Viral Load -Triplex Flu/RSV/COVID-19	Yes No Yes Yes	Yes - confirmation	
Cytopathology -Gynae Cytology -Non-Gynae Cytology	Yes Yes	No No	
Histology	No, plans to set up Histology	Yes	Queensland Pathology, Brisbane, Australia

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D: EQA Providers

Institution	Panel name	No.of cycles provided
	<ul style="list-style-type: none"> ✓ Microbiology ✓ Serology ✓ Haematology (Blood Film Morphology – stained slides only) ✓ Blood Bank ✓ Biochemistry HbA1C ✓ Molecular Panel (SARS-CoV-2) 	(3 Dispatch's) (3 Dispatch's) (3 Dispatch's) (3 Dispatch's) (2 Dispatch's) (3 Dispatch's)

E: Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
2021	SLIPTA	SPC
2023	SLIPTA	PPTC

F: Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	L2/L3	
IATA certified Trainers	Yes ✓ Number Certified 1 Trainers: Rosemary Tekoaua Date Training License Expires: 30 September 2023 Trainer: Bineta Ruaia Date Training License Expires: 20 October 2025	No
IATA certified Shippers	Yes ✓ Number Certified 13 [2021 (8) & 2022 (5)] Date Shipping License Expires: 5 June 2023 & 24 June 2024	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Fiji Airways, Solomon Airways, Nauru Airlines & DHL	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) Planned to intergrate with SENAITE system in May 2024
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COUNTRY: MARSHALL ISLANDS - MAJURO
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name	Majuro Hospital Laboratory
Laboratory Main Contact	Mr. Paul Lalita Laboratory Manager Majuro Hospital
Address	P. O. Box 16, Majuro, Republic of Marshall Islands 96960
E-mail	paul.lalita01@gmail.com
Phone	(692) 625-3399/ 3355 Ext. 2376
Fax	No fax in use at the Majuro Hospital
Sr. Tech/Other Contact	Mr. Itibwerere Amota
E-mail	iamota@rmihealth.org
Phone	(692)625-3399/3355 Ext. 2376
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Chlamydia	Molecular (Cepheid GeneXpert)	None	N/A
Cholera	Presumptive culture Serotyping	Confirmatory Culture and Serotype	Hawaii State Laboratory Division, HI, USA
Dengue	EIA (SD Dengue DUO)	PCR Confirmatory and Serotyping	Hawaii State Laboratory Division, HI, USA
Chikungunya	Unavailable	PCR Qualitative	Hawaii State Laboratory Division, HI, USA
Zika	Unavailable	PCR Qualitative	Hawaii State Laboratory Division, HI, USA
Gonorrhea	Culture/ID Molecular (Cepheid GeneXpert)	None	N/A
HIV	EIA (Determine, Unigold & Insti); HIV-1 viral load (GeneXpert)	HIV-1 RNA, Quantitative	Diagnostic Laboratory Services, HI, USA
Influenza	Rapid Flu A+B Test	PCR Detection and Sub-typing	Hawaii State Laboratory Division, HI, USA
SARS-CoV-2	PCR (GeneXpert & Biofire)	PCR Quantitative and WGS	Hawaii State Laboratory Division, HI, USA
Leptospirosis	Unavailable	IgM antibody	Diagnostic Laboratory Services, HI, USA
Measles	Unavailable	PCR Detection	Hawaii State Laboratory, Honolulu, Hawaii
Rubella	Unavailable	IgM & IgG Antibodies	Diagnostic Laboratory Services, HI, USA
Syphilis	RPR (Wampole); TP Antibody (SD Bioline Syphilis)	None	N/A
Tuberculosis	Direct AFB smear (ZN method)	AFB smear (concentrated) Culture, ID, AST	Diagnostic Laboratory Services, HI, USA
Typhoid	Culture/ID	Serology	Diagnostic Laboratory Services, HI, USA
Monkey pox	Unavailable	PCR	Hawaii State Laboratory, Honolulu, Hawaii

... / ...



C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory (Equipment used for testing)	Referred Test	Current Referral Laboratory
Haematology -Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Sysmex CA-104 SYSMEX XNL-450	Peripheral smears for leukemia confirmation, and Malaria identification	DLS, Aiea, Hawaii
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	EasyRA DCA Vantage Cobas e411	Tumor markers, and special chemistries	DLS, Aiea, Hawaii
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Parasitology for common tropical parasites	Vitek 2 Compact Darwin Chamber Company (aerobic) to be replace with Heratheram brand		
Molecular testing -RT-PCR -HPV (start up: 200 tests currently being ordered)	GeneXpert	HBV DNA, Quant.	DLS, Aiea, Hawaii
Cytopathology -Gynae Cytology -Non-Gynae Cytology	Referred		Queens Medical Center, Honolulu, Hawaii
Histology	Referred		Queens Medical Center, Honolulu, Hawaii

D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC	Biochemistry; Hematology; Blood Bank; Serology; Microbiology; Molecular (SARS-CoV-2 = Influenza)	3 cycles each
CDC (US) Queensland MRL	BGeneXpert MTB/RIF PT AFB Slides Panel	2 Cycles 1 Cycle
DLS, Aiea, Hawaii	BSR	1 cycle

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E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
2018	SLIPTA	PIHOA

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	L2: Hawaii State Laboratory & DLS L3: CDC LRN via Hawaii State Laboratory	
IATA certified Trainers	Yes. Number Certified Trainers: 1 Date Training License Expires: 28 Oct 2024	No
IATA certified Shippers	Yes. Number Certified Shippers: 4 Date Shipping License Expires: 10 Jun 2024	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory		

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned (initial phase on trial basis)
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COUNTRY:

MARSHALL ISLANDS - EBey

LABNET DESIGNATION:

L1 **[NO UPDATES FOR 2024]**



A: Contact/General Information

Laboratory Name Ebey Hospital Laboratory

Laboratory Main Contact

Address

E-mail

Phone

Fax

Sr. Tech/Other Contact

E-mail

Phone

Laboratory Testing Performed General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Current Referral Laboratory Location
Chlamydia			
Cholera			
Dengue			
Chikungunya			
Zika			
Gonorrhea			
HIV			
Influenza			
SARS-CoV-2			
Leptospirosis			
Measles			
Rubella			
Syphilis			
Tuberculosis			
Typhoid			
Monkey pox			

.../ ...



C: Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology -Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	SYSMEX XN 450 SYSMEX XN 350 XS 1000i		
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	COBAS C111 ELECTROLYTE ANALYSER i-STAT ANALYZER HBA1C ANALYZER VITROS 350		
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated)	VITEK II SYSTEM URINE CHECK ANALYZER BIOSAFETY CABINET- (LABORATORY CONCO)		
- AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	VITEK DENSI CHECK		
Molecular testing -RT-PCR -HPV -HBV Viral Load	ABBOTT ID NOW 4 MODULE ABBOTT ID NOW 16 MODULES		
Cytopathology -Gynae Cytology -Non-Gynae Cytology			
Histology			

D: EQA Providers

Institution	Panel name	No.of cycles provided

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E: Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F: Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)		
IATA certified Trainers	Yes. Number Certified Trainers:..... Date Training License Expires:.....	No
IATA certified Shippers	Yes. Number Certified Shippers:..... Date Shipping License Expires:.....	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory		

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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COUNTRY:

NAURU

LABNET DESIGNATION:

L1



A: Contact/General Information

Laboratory Name	Republic of Nauru Hospital Laboratory
Laboratory Main Contact	Mrs Shanyko Benjamin
Address	RoN Hospital Denig District NAURU
E-mail	shanyko137@gmail.com
Phone	(674) 557 2906
Laboratory Testing Performed	General Laboratory testing, limited PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Chlamydia	No	All	QLD Medical Laboratory, AU
Cholera	Culture and sensitivity	Confirmation	QLD Medical Laboratory, AU
Dengue	(SD Dengue DUO)	Serotyping	QLD Medical Laboratory, AU
Chikungunya	SD Biosensor, IgM, IgG	Serotyping	N/A
Zika	No	All	QLD Medical Laboratory, AU
Gonorrhea	No	All	QLD Medical Laboratory, AU
HIV	Abbott-Determine, Unigold and Insti, Molecular - Viral Load (Cepheid GeneXpert)	CD4 Count ELISA	QLD Medical Laboratory, AU
Influenza	Alere BinaxNOW Influenza A & B Card,	Serotyping	WHOCC VIDRL Melbourne
SARS-CoV-2	Cepheid GeneXpert, ELiTe InGenius – RT-PCR	Genomic sequencing	WHOCC VIDRL Melbourne
Leptospirosis	SD Bioline Leptospirosis, IgM	No	N/A
Measles	No	All	WHOCC VIDRL Melbourne
Rubella	No	All	WHOCC VIDRL Melbourne
Syphilis	Determine-TPHA	RPR Titre	N/A
Tuberculosis	Direct smear-ZN stain GeneXpert MTB/RIF	Culture, ID, AST	QLD Medical Laboratory, AU
Typhoid	Culture/ID/Sensitivity	Serotyping	QLD Medical Laboratory, AU
Mpox	No	All	WHOCC VIDRL Melbourne

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C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Hematology - Full Blood count & type of Analyzer - Blood Film Analysis - Coagulation Profile	FBC – Roche Sysmex XP 100, XN 550 Coagulation - PT/INR	Blood film analysis and other Coagulation profile	QLD Medical Laboratory, AU
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	All except for Tumour Markers	Tumour Markers	QLD Medical Laboratory, AU
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	-Urinalysis (manual and automated), Blood Culture (manual), Identification (manual), AST (manual), AST (EUCAST), Fungal testing (KOH, Microscopy, Culture), no water & food testing	No	N/A
Molecular testing -RT-PCR -HPV -HBV Viral Load	Cepheid GeneXpert; SARS-CoV-2, MTB, HIV Viral Load	HPV, HBV Viral Load, Genomic sequencing	WHOCC VIDRL Melbourne & QLD Medical Laboratory, AU
Cytopathology -Gynae Cytology -Non-Gynae Cytology	No	All	QLD Medical Laboratory, AU
Histology	No	All	QLD Medical Laboratory, AU

D. EQA Providers

Institution	Panel name	No.of cycles provided
Pacific Pathology Training Centre	Biochemistry, Hematology, Blood Bank, Molecular, Serology & Microbiology	Every 3 months

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
Oct 2023	Stepwise Accreditation Audit Score – 1 Star (64%)	Simione Turaganiwai /Pacific Community (SPC)

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F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	WHOCC VIDRL Melbourne	
IATA certified Trainers	Yes. Number Certified Trainers: 1 Date Training License Expires: September 2025	No
IATA certified Shippers	Yes: Number Certified Shippers: 3 Date Shipping License Expires: May 2024	Yes
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Nauru Airline & Pak Fresh (Brisbane Australia)	

G: Laboratory Information System

Laboratory Information System (LIS)	No (directly into HIS) Planning to - Yes. 2024
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PPHSN LabNet catalogue – 2024 Edition

COUNTRY: NORTHERN MARIANA ISLANDS
LABNET DESIGNATION: L1



A: Contact/General Information

Laboratory Name	Commonwealth Health Center Laboratory
Laboratory Main Contact	Dr. Philip Dauterman, MD, Laboratory Director
Address	Commonwealth Health Center, Lower Navy Hill, P.O. Box 500409 CK, Saipan, MP 96950 USA -
E-mail	chcLaboratory@gmail.com or chccLaboratory@chcc.health
Phone	(670) 234-8950 ext.2319
Fax	(670) 236-8612
Sr. Tech/Other Contact	Mr John Duenas, Clinical Laboratory Technician
E-mail	chcLaboratory@gmail.com
Phone	(670) 236-8395/96
Fax	(670) 236-8612
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Chlamydia	YES – on GeneXpert	N/A	N/A
Cholera	No	Serotyping	Diagnostic Laboratory Services Hawaii, USA
Dengue	No	EIA	Univ. of Hawaii-Trop Med Dept, Hawaii, USA
Chikungunya		Trioplex Test	Guam Public Health Laboratory
Zika		Trioplex Test	Guam Public Health Laboratory
Gonorrhea	YES – on GeneXpert	N/A	N/A
HIV	No	EIA, Western Blot	Diagnostic Laboratory Services Hawaii, USA
Influenza	Quidel-Rapid Test GeneXpert	PCR	Diagnostic Laboratory Services Hawaii, USA
SARS-CoV-2	YES – on GeneXpert, Abbott ID Now, Biofire RP2		
Leptospirosis	No	EIA, confirmation	Diagnostic Laboratory Services Hawaii, USA
Measles	No	EIA	Diagnostic Laboratory Services Hawaii, USA
Rubella	No	EIA	Diagnostic Laboratory Services Hawaii, USA
Syphilis	RPR	FTA	Diagnostic Laboratory Services Hawaii, USA
Tuberculosis	YES – on GeneXpert	Culture, ID, sensitivity	Diagnostic Laboratory Services Hawaii, USA
Typhoid	No	EIA	Diagnostic Laboratory Services Hawaii, USA
Mpox	No	PCR Test	CDC Atlanta



C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology -Full Blood count & type of Analyser -Blood Film Analysis -Coagulation profile	Siemens Advia Sysmex XN-1000 (by Fall 2022)		
Biochemistry -RFTs -RBS -HbA1c -Cardiac Enzymes -Lipid Profile -Tumour Markers	Siemens Dimensions EXL		
Microbiology -Urinalysis (manual or automated) -Blood Culture (manual or automated) -Culture -Identification (manual or automated) -AST (manual or automated) -AST International Guideline used -Fungal testing -Water testing -Food testing	Siemens CLINITEK STATUS BACTEC VITEK Agar Petri Plates		
Molecular testing -RT-PCR -HPV -HBV Viral Load	GeneXpert Biofire Abbott ID NOW		
Cytopathology -Gynae Cytology -Non-Gynae Cytology		Pap Smear	Diagnostic Laboratory Services Hawaii, USA
Histology		Histology	Diagnostic Laboratory Services? Hawaii, USA

D. EQA Providers

Institution	Panel name	No.of cycles provided
College of American Pathologist (CAP)	Hema, Coag, Micro, Chem	3 per year
American Proficiency Institute (API)	Hema, Coag, Micro, Chem	3 per year

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
September 2021	CLIA/CMS	CLIA/CMS



F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	*Diagnostic Laboratory Services; University of Hawaii-Trop. Med Department Hawaii, USA; *US Mil. Laboratory, Texas, USA, CDC Atlanta	
IATA certified Trainers	Yes. Number of Certified Trainers: 1 Date Training License Expires:.....	No
IATA certified Shippers	Yes. Number of Certified Shippers:13 Date Shipping License Expires: 2024	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	United Airlines	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS)
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COUNTRY:
LABNET DESIGNATION:

NIUE
L1



A: Personnel/Contact Information

Laboratory Name	Niue Foou Hospital Laboratory
Laboratory Manager	Andy Manu Laboratory Scientist
Address	Niue Health Department PO Box 33, Alofi, Niue
E-mail	andy.manu@gov.nu
Phone	(683) 4100
Fax	
Sr. Tech/Other Contact	Martina Siataga Laboratory Technician Assistant
E-mail	Martina.Siataga@gov.nu
Phone	(683) 4100
Sr. Tech/Other Contact	Misiona Nicholas Laboratory Technician
E-mail	Misiona.Nicholas@gov.nu
Laboratory Testing Performed	All general Laboratory testing, limited PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Test at L2 – L2 Location
Chlamydia	Rapid Test-Hexagon GeneXpert	DNA Probe	LabPlus Auckland, NZ
Cholera	Presumptive culture	Confirmation ID	LabPlus Auckland, NZ
Dengue	Pan Bio-IgG/IgM	Confirmation	No
Chikungunya	No	Confirmation	ESR/VIDRL
Zika	No	Confirmation	ESR/VIDRL
Gonorrhea	Gram stain, Presumptive culture, Susceptibility test. GeneXpert	Confirmation	LabPlus Auckland, NZ
HIV	Determine, Unigold, Insti	CD4 & Viral Load	LabPlus Auckland, NZ
Influenza	Quidel-Rapid Test	PCR	ESR NCID, Wellington NZ
SARS-CoV-2	GeneXpert	Whole Genome Sequencing	ESR, Wellington, NZ
Leptospirosis	No	Screen/Confirmation	LabPlus Auckland, NZ
Measles	No	EIA	LabPlus Auckland, NZ
Rubella	No	EIA	LabPlus, Auckland, NZ
Syphilis	RPR, TPHA	Titer	LabPlus Auckland, NZ
Tuberculosis & MTRif	Yes – ZN stain, GeneXpert	DST	ESR/LabPlus, NZ
Typhoid	Yes – presumptive culture	Culture-ID, serotyping	ESR/LabPlus, Auckland, NZ
Mpox	No	RTPCR	VIDRL



C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Yes	Fe Studies	LabPlus, Auckland Hospital, NZ
Biochemistry -RFTs -Electrolytes -Blood Glucose -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Uric Acid -Venous/Arterial Blood Gas	Yes	Tumor Markers TFTs Hormones	LabPlus, Auckland Hospital, NZ
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used - Stool testing (FOB & microscopy) -Fungal testing -Water testing	Yes	None	ESR, Wellington/LabPlus, Auckland Hospital
Molecular testing -RT-PCR -HPV -HBV Viral Load	Yes/No	Viral load Virus Serology	LabPlus, Auckland Hospital, NZ
Histology - Biopies	No	Screening	LabPlus, Auckland Hospital, NZ
Cytology - Pap smears	No	Screening	LabPlus, Auckland Hospital, NZ

D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC	Microbiology Biochemistry Hematology Serology Blood Bank	3

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E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	*LabPlus, Auckland, NZ *ESR, Wellington, NZ	
IATA certified Trainers		No
IATA certified Shippers	Yes.....Number Certified Shippers: 4 Date Shipping License Expires: Nov 2024	
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Air New Zealand	

G: Laboratory Information System

Laboratory Information System (LIS)	No Planned
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COUNTRY:
LABNET DESIGNATION:

PALAU
L1



A: Contact/General Information

Laboratory Name	Belau National Hospital Laboratory
Laboratory Main Contact	Lily Ulitech – Laboratory Manager,
Address	P. O. Box 6027 Koror, Palau 96940
E-mail	lily.ulitech@palauhealth.org
Phone	(680) 4886100, 488 2552/4508
Fax	(680) 488 4503
Sr. Tech/Other Contact	Carmin Pipit
E-mail	Carmin.pipit@palauhealth.org
Phone	(680) 4886100, 488 2552/4508
Fax	(680) 488 4503
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Chlamydia	GeneXpert	No	N/A
Cholera	Culture/ID	No	N/A
Dengue	SD Dengue Duo	Serotyping	Hawaii State Laboratory
Chikungunya	No	PCR	Hawaii State Laboratory
Zika	No	PCR	Hawaii State Laboratory
Gonorrhea	GeneXpert	No	N/A
HIV	Determine, Unigold, Insti CD4 & Viral Load	Drug Sensitivity	Diagnostic Laboratory Services Hawaii, USA
Influenza	Rapid Influenza A&B Biofire respiratory panel	Further Characterization	CDC, Atlanta, USA
SARS-CoV-2	GeneXpert Biofire Respiratory panel	Advanced Molecular Detection	CDC, Atlanta, USA Hawaii State Laboratory
Leptospirosis	SD Leptospirosis	No	Diagnostic Laboratory Services Hawaii, USA
Measles	No	Measles IgG/IgM	Hawaii State Laboratory
Rubella	No	Rubella IgG/IgM	Hawaii State Laboratory
Syphilis	RPR, Determine	No	N/A
Tuberculosis	Direct smear-ZN stain GeneXpert	Culture, ID, sensitivity	Diagnostic Laboratory Services Hawaii, USA
Typhoid	Culture/ID	No	N/A
Mpox	No	PCR	CDC, Atlanta, USA

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C. Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology Full Blood count & type of Analyser Blood Film Analysis Coagulation Profile	Sysmex XP100 Sysmex XP300 Sysmex XN 450 Sysmex XN 550 Manual WBC diff is done to confirm analyzer flags Sysmex CA 600 Series	None	None
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	Medica Easy Ra Vitros System 350 PiccoloXpress Siemens DCA Vantage Mini Vidas	None	none
Microbiology -Urinalysis (manual or automated) Blood Culture (manual or automated) -Culture -Identification (manual or automated) AST (manual or automated) AST International Guidelines used -Fungal testing -Water testing -Food Testing	Model 2005 Low Temp Incubator Market Forge Sterilmatic Autoclave Telstar Bio II Advance BSL2 Urinalysis- semi-automated Siemens Clinitek Stratus+ Culture & AST Manual methods AST Reference - CLSI Culture, KOH	None	None
Molecular testing -RT-PCR -HPV -HBV Viral Load	GeneXpert 4 Module x 3 FilmArray Torch (Biofire) ABI 7500	None	None
Cytopathology -Gynae Cytology -Non-Gynae Cytology	None	Gynae	Diagnostic Laboratory Service, Hawaii
Histology	No	yes	Hi-Precision Reference Laboratory, Philippines

... / ...



D. EQA Providers

Institution	Panel name	No. of cycles provided
PPTC	Hematology, Blood Bank, Chemistry, Serology, Microbiology,	3
DLS	TB-Xpert Proficiency AFB Smear Proficiency	1

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
2022	SLIPTA	PIHOA

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	Diagnostic Laboratory Services, Hawaii; Hawaii State Laboratory; CDC Atlanta, USA;	
IATA certified Trainers	Yes. Number of Certified Trainers: 1 Date Training License Expires 10/28/2024	No
IATA certified Shippers	Yes. Number Certified Shippers: 13 Date Shipping License Expires: 05/12/2024 - 5 06/30/2025 - 5 11/11/2024 - 3	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	United Airlines	

G: Laboratory Information System

Laboratory Information System (LIS) SENAITE	The system has been developed, in the implementation phase
	The next phase will be interfacing of Laboratory analyzers with SENAITE(LIS) and integration of LIS with the hospital information system (TAMANU)



COUNTRY:
LABNET DESIGNATION:

PAPUA NEW GUINEA
L1



A: Personnel/Contact Information

Laboratory Name	CENTRAL PUBLIC HEALTH LABORATORY
Laboratory Director	Mr. Willie Porau,
Address	Central Public Health Laboratory Port Moresby General Hospital, Free Mail Bag, Boroko, National Capital District, Papua New Guinea
E-mail	porauw@gmail.com
Phone	(675) 324 8146
Fax	(675) 325 6342
Sr. Tech/Other Contact	Janlyn Kemoi-A/Laboratory Manager Central Public Health Laboratory
E-mail	Janlynkemoi008@gmail.com
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Chlamydia	No	No	N/A
Cholera	Culture/ID, serotyping	No	NA
Dengue	PanBio strips – IgM	Serotype, PCR	Institute of Medical Research (IMR), PNG
Chikungunya	No	No	NA
Zika	No	No	NA
Gonorrhea	No	No	No
HIV	HIV Syphilis Dual, ABON Triline HIV ½ Geniefast HIV ½ Murex HIV	No	N/A
Influenza	Biofire film Array	PCR (ILI cases), Pertusis	Institute of Medical Research (IMR), PNG
SARS-CoV-2	Rapid panbio test kit, GeneXpert, PCR, Biofire	Sequencing	Doherty Australia
Leptospirosis	No	No	NA
Measles	EIA	Sequencing	Doherty Australia
Rubella	EIA-Dade	Sequencing	Doherty Australia
Syphilis	Alere-TPHA RPR, TPPA, Titer	No	N/A

... / ...



B: Target Disease Testing Information (cont'd)

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Tuberculosis	TB Culture, LPA, GenXpert & Direct smear-ZN stain,DST	MTB Rif isolates & DST	Queensland. Mycobacterium. Ref. Laboratory Brisbane, AU NB: CPHL has been performing TB culture ,DST but right now our PC3 Laboratory is down hence we are referring samples for culture to QMRL
Typhoid	Culture/ID	No	N/A
Mpox	No	No	NA

C. Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	No	Yes	Port Moresby General Hospital
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	No	All Biochemistry test referred to PMGH	Port Moresby General Hospital
Microbiology -Urinalysis (manual or automated) - Blood Culture (manual or automated) -Culture -Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used -Fungal testing -Water testing -Food Testing	Water testing and Food testing Culture - Identification (automated (Phonix & Maldi) - AST (automated (Phonix used) - AST International Guidelines used	No	Port Moresby General Hospital
Molecular testing -RT-PCR -Early Infant Diagnosis -Viral Load	Yes	NA	NA
Cytopathology -Gynae Cytology -Non-Gynae Cytology	No	Yes	Port Moresby General Hospital
Histology	No	Yes	Port Moresby General Hospital

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D. EQA Providers

Institution	Panel name	No.of cycles provided
Central Public Health Laboratory	TB Panel, HIV Panel, Malaria Panel	2
WHO	COVID19 Genxpert Panel, Measles & Rubella Panel, Rotavirus panel, JE panel	1
CDC	EID Panel, Syphilis Panel	1
Vietnam EQA-CDC	TB gene Xpert Panel	1

E. Laboratory External Audit/Assessment

Audit conducted in 2023 by PPTC (Pacific Pathology Training Center)	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
COVID19 PCR Laboratory	WHO tool assessment	WHO 2021
Measles and Rubella EIA Laboratory	WHO tool assessment	WHO-2022

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	Mycobact Ref Laboratory, Brisbane, Doherty Institute (Polio and Covid Sequencing)	
IATA certified Trainers	Yes. Number Certified Trainers: 1 Date Training License Expires: 30 September 2025...	yes
IATA certified Shippers	Yes. Number Certified Shippers: 8 Date Shipping License Expires: 30 October 2024	Yes
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Air Niugini	

G: Laboratory Information System

Laboratory Information System (LIMS)	A local software company, Crysan Technology is developing the Laboratory Information system for CPHL. The company plan to go on live end of March 2024.
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COUNTRY:

SAMOA

LABNET DESIGNATION:

L1



A: Personnel/Contact Information

Laboratory Name	NATIONAL CLINICAL LABORATORY
Pathologist	Dr Seventeen Toumoua
Email	Seventeen.Toumoua@health.gov.ws
Laboratory Manager:	Ms Hinauri Leaupepe – Ngau Chun,
Address	Laboratory Service Samoa National Health Service Private Mail Bag, Apia, Samoa
E-mail	hinauril@health.gov.ws
Phone	(685) 66 651
Sr. Tech/Other Contact	Perenise Eti
E-mail	perenisee@health.gov.ws
Phone	(685) 66655
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Chlamydia	Gene Expert	No	N/A
Cholera	Presumptive culture	ID, confirmation	LabPlus Auckland, NZ
Dengue	SD Bioline Dengue NS1Ag + Ab Combo	Yes for DenV PCR and Serotyping	WHO Arbovirus Reference Centre, Brisbane, Australia. ESR/NCBID NZ
Chikungunya	No	Yes	LabPlus Auckland, NZ
Zika	No	Yes	LaboratoryPlus Auckland, NZ
Gonorrhea	Presumptive culture, gram stain, PCR Genexpert	No	N/A
HIV	Determine, Unigold, Insti, HIV Viral load on GeneXpert	No	N/A
Influenza	Standard Q Influenza A&B RDT Veritor	No	N/A
SARS-CoV-2	Gene Expert	Yes for WGS	ESR, Wellington NZ
Leptospirosis	SD Bioline Leptospirosis IgM	EIA	LabPlus, Auckland, NZ
Measles	No	EIA	LabPlus Auckland, NZ
Rubella	No	EIA	LabPlus Auckland, NZ
Syphilis	RPR,TPHA and Anti TP	No	
Tuberculosis	Direct smear-ZN stain, GeneXpert	culture/ID, Sensitivity	LabPlus, Auckland NZ
Typhoid	Culture/ID	Phage typing	LabPlus and ESR NZ
Mpox	No	Yes	

... / ...



C. Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Yes (Sysmex XN1000i, XN550) Yes Yes (HumaClot)	No No No	
Biochemistry RFTs RBS HbA1c ACR LFTs Cardiac Enzymes Lipid Profile Tumour Markers Iron studies Troponin-T Vitamin B12 & Folate Blood Gas	Yes (EasyRA & Cobas C311) Yes (EasyRA & Cobas C311) Yes (Affinion2 & DCA Vintage) Yes (Affinion2 & DCA Vintage) Yes (EasyRA & Cobas C311) Yes (EasyRA & Cobas C311) Yes (EasyRA & Cobas C311) Yes (Cobas E411) Yes (Cobas C311 & E411) Yes (Cobas E411) Yes (Cobas E411) Yes (Cobas E411) Yes (ABL90 and EasyStat)	No No No No No No No No No No No No No	
Microbiology • Urinalysis (manual or automated) • Blood Culture (manual or automated) • Culture • Identification (manual or automated) • AST (manual or automated) • AST International Guidelines used • Fungal testing • Water testing • Food Testing	Yes (Manual and automated - EA Aution) Yes (Automated – Bactec 240) Yes (Manual) Yes (Manual and automated) Yes (Manual and automated – Phoenix M50) Yes (EUCAST and CLSI) Yes No No	No No No No No No No No No	MOH Public Health Laboratory
Serology			

... / ...



C. Clinical Diagnostic Tests (cont'd)

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Molecular testing -RT-PCR -HPV -HBV Viral Load	GeneXpert PCR No No	Yes for WGS Yes Yes	ESR NZ LabPlus LabPlus
Cytopathology <ul style="list-style-type: none"> Gynecological smears (Conventional smears) <ul style="list-style-type: none"> Papanicolaou staining Non-gynecological specimens <ul style="list-style-type: none"> Papanicolaou staining Giemsa staining Cellblock Fine Needle Aspiration (FNA) <ul style="list-style-type: none"> Papanicolaou staining Giemsa staining Diff-Quik staining Cellblock 	Yes (Manual and automated) Yes (Manual and automated) Yes (Manual and automated)	No No No	
Histology <ul style="list-style-type: none"> Histology grossing/cut-up Tissue processing Embedding Microtomy Routine staining – H&E Special stains – PAS and ZN Others – Decalcification (calcified tissue) Immunohistochemistry staining 	Yes (manual) Yes (automated) Yes (manual) Yes (manual) Yes (manual & automated) Yes (manual) Yes (manual) No	No No No No No No No Yes	LabPlus, Auckland NZ

D. EQA Providers

Institution	Panel name	No. of cycles provided
PPTC	PPTC-EQAP <ul style="list-style-type: none"> Microbiology Serology Hematology (Blood Film morphology) Blood Bank Biochemistry <ul style="list-style-type: none"> HbA1C Anatomic Pathology 	3 cycles per year 3 cycles per year 3 cycles per year 3 cycles per year 2 cycles/4 assessments) per year 3 cycles per year

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E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
2023	SLIPTA	Pacific Pathology Training Centre

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	Fiji Centre for Disease Control; *LabPlus Auckland, NZ; WHO ARbovirus Reference Centre, Brisbane, AU; *VIDRL, Melbourne, AU	
IATA certified Trainers	Yes. Number Certified Trainers: 1 Date Training License Expires: 2025	Yes
IATA certified Shippers	Yes. Number Certified Shippers: 5 Date Shipping License Expires: 2025	Yes
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Air New Zealand	

G: Laboratory Information System

Laboratory Information System (LIS)	Planned for April 2024 (SENAITE and is to be implemented into the Patient Information System the Tupaia system)
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COUNTRY:

SOLOMON ISLANDS

LABNET DESIGNATION:

L1



A: Personnel/Contact Information

Laboratory Name	NATIONAL REFERRAL HOSPITAL LABORATORY
Pathologist:	Dr Roger Maraka
Email:	r_rogermaraka@yahoo.com
Chief Medical Technologist	Alfred Dofai; Head of Medical Laboratory National Referral Hospital P. O. Box 349, Honiara, Solomon Islands
Address	P. O. Box 349, Honiara, Solomon Islands
E-mail	ADofai@nrh.gov.sb
Phone	(677) 44066 DL – 677 25436
Fax	(677) 24 243 or 23 761
Sr. Tech/Other Contact	Mr Elliot Puiahi Laboratory Manager
E-mail	EPuiahi@nrh.gov.sb
Phone	(677) 23446
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Chlamydia	No	Yes	Royal Brisbane Hospital
Cholera	Presumptive culture/ID	Culture confirmation, serotyping	Qnsld Hlth Sci Serv-Royal Brisbane Brisbane, AU
Dengue	SD Bioline NS1AgIgM/IgG	Serotype, PCR	WHO Arbovirus Reference Centre, Brisbane, Australia
Chikungunya	No	Yes	ILM, Tahiti
Zika	No	Yes	ILM, Tahiti
Gonorrhea	Gram stain, culture	No	N/A
HIV	Determine, Unigold, Insti	Gene Expert	Qnsld Hlth Sci Serv-Royal Brisbane Brisbane, AU
Influenza	BD Veritor System	PCR	WHO-CC Melbourne, AU
SARS-CoV-2	qPCR	PCR	Doherty Institute, Melbourne, AU
Leptospirosis	RDT	Screen, Confirmation	Qnsld Hlth Sci Serv Brisbane, AU
Measles	No	EIA	Qnsld Hlth Sci Serv-Royal Brisbane Brisbane, AU
Rubella	No	EIA	Qnsld Hlth Sci Serv-Royal Brisbane Brisbane, AU
Syphilis	RPR, TPHA	No	N/A
Tuberculosis	Direct smear-ZN stain /GeneXpert	Limited culture/ID, sensi	Adelaide Supra Reference Laboratory
Typhoid	Culture/ID	Serotyping confirmation	Qnsld Hlth Sci Serv-Royal Brisbane Brisbane, AU
Mpox			

... / ...



C.1 Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	FBC- Hb, Wcc, Plts, RBC, MCV, MCH, MCHC (Analyzer – Sysmex XN1000). Coagulation- PT, PTT, D-Dimer, Fibrinogen	Vit B12 Iron studies Bone marrow aspirate/ trephine	Qnsld Hlth Sci Serv- Royal Brisbane Brisbane, AU
Biochemistry -RFTs -RBS -HbA1c -LFTs -Cardiac Enzymes -Lipid Profile -Tumour Markers	RFTs, RBCs, LFTs, Cardiac, Lipid, Lipid Profile, HBA1c. Machine - Cobas c311 -	Tumor markers, Hormones, Enzymes	Qnsld Hlth Sci Serv- Royal Brisbane Brisbane, AU
Microbiology - Urinalysis (manual or automated) - Blood Culture (manual or automated) - Culture - Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used - Fungal testing - Water testing - Food Testing	- Urinalysis (manual) - Blood Culture (automated) - Culture - Identification (manual) - AST (manual) - AST - International Guidelines used - Fungal testing	Confirmation of organisms identified and DSTs. Confirm ESBL and MRSA.	Qnsld Hlth Sci Serv- Royal Brisbane Hosp Brisbane, AU
Molecular testing -RT-PCR -HPV -HBV Viral Load	-RT-PCR plus Gene- Xpert and Biofire	Confirmation of Identified viruses and whole genome sequence	VIDRL Doherty Institute. Microbiology Diagnostic Unit.
Cytopathology -Gynae Cytology -Non-Gynae Cytology		All cytologies	Qnsld Hlth Sci Serv- Royal Brisbane, Hosp Brisbane, AU
Histology	Tissue processing and reporting 10%	90% tissues	Qnsld Hlth Sci Serv- Royal Brisbane Hosp Brisbane, AU

D. EQA Providers

Institution	Panel name	No. of cycles provided
PPTC	Biochemistry, Haematology, Serology	Quarterly
WHO EQAP Hong Kong	SARS-CoV-2	Quarterly
Adelaide TB SRL	TB EQA	Bi Yearly

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E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
2019	SLIPTA	Russel Cole / PPTC
2023	SLIPTA	Angela Lewis/Emmanuel M / PPTC

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	Queensland Health Scientific Services, WHO Arbovirus Reference Centre, Brisbane, Australia *Royal Brisbane Hospital in Queensland, Australia * Adelaide Supra Reference Laboratory	
IATA certified Trainers	Yes. Number Certified Trainers: 1 Date Training License Expires: 20th Oct 2025	Yes
IATA certified Shippers	Yes. Number Certified Shippers: 11 Date Shipping License Expires: 23 rd Sept 2024	Yes
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Solomon Airlines - Mr. Peter Omani Ph. (677) 36291	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No but being planned
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COUNTRY:
LABNET DESIGNATION:

TOKELAU
L1



A: Personnel/Contact Information

Laboratory Name	HOSPITAL LABORATORY
Manager	Mrs Puaese Wily Falavi Director of Health
Address	Nukunono Island
Email	puaesewillyfalavi@gmail.com
Phone	(690) 741284 or (690) 741283
Sr. Tech/Other Contact	Sene Kerisiano
E-mail	Sene.kerisiano@tokelau.or.nz nukunonuLaboratoryservices@gmail.com
Laboratory Testing Performed	Limited general Laboratory testing and PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Chlamydia	No	No	N/A
Cholera	No	Culture/ID	LabPlus or ESR, NZ Via Samoa National Hospital
Dengue	No	Confirmation	LabPlus or ESR, NZ Via Samoa National Hospital
Chikungunya			
Zika			
Gonorrhea	No	Culture	LabPlus or ESR, NZ Via Samoa National Hospital
HIV	Determine	Confirmation	LabPlus or ESR, NZ Via Samoa National Hospital
Influenza	Quidel-Rapid Test	PCR	ESR NCID, Wellington NZ Laboratory Plus NZ
SARS-CoV-2			
Leptospirosis	No	No	N/A
Measles	No	No	N/A
Rubella	No	No	N/A
Syphilis	Determine	No	N/A
Tuberculosis		No	N/A
Typhoid	No	Culture	*LabPlus or ESR, NZ Via Samoa National Hospital
Mpox	No		

... / ...



C: Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Haematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Waiting for analyser from PPTC	Nil	
Biochemistry - RFTs - RBS - HbA1c - LFTs - Cardiac Enzymes - Lipid Profile - Tumour Markers	Operating well – using Dry Chem NX500 Analyser	Nil	
Microbiology - Urinalysis (manual or automated) - Blood Culture (manual or automated) - Culture - Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used - Fungal testing - Water testing - Food Testing	Yes for urine only (manual chemical analysis)	Nil	
Molecular testing - RT-PCR - HPV - HBV Viral Load	Nil		
Cytopathology - Gynae Cytology - Non-Gynae Cytology	Nil		
Histology	Nil		

D: EQA Providers

Institution	Panel name	No. of cycles provided

E: Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SIPTA/ISO/Others)	Assessor/Agency conducting the Audit
Not started yet – maybe early this year.		

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F: Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	LabPlus, ESR, New Zealand? Via Samoa National Hospital Laboratory	
IATA certified Trainers	Yes.... Number Certified Trainers: Date Training License Expires:	No
IATA certified Shippers	Yes Number Certified Shippers: Date Shipping Certificate Expires	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	By Sea to Samoa and Air New Zealand (via Samoa National Hospital)	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No
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COUNTRY:
LABNET DESIGNATION:

TONGA
L1



A: Personnel/Contact Information

Laboratory Name	VAIOLA HOSPITAL LABORATORY
Pathology Registrar	Dr. Patrick Penitani,
Address	Laboratory Services, Vaiola Hospital, Nukualofa, Tonga
Email	patrickpenitani@gmail.com
Phone	(676) 23 200 ext 1397 or (676) 7400218
Principle Scientist/Manager	Mrs. Senisaleti Pasikala, Principal Medical Scientist
Email	Senisaleti_pasikala@yahoo.com
Phone	(676) 23 200 ext 1515 or (676) 7400470
Fax	(676) 28 964
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Chlamydia	Gene Xpert	No	N/A
Cholera	No	Culture/ID	LabPlus Auckland, NZ
Dengue	SD Dengue Duo NS1/IgM/IgG	Serotyping	WHO Arbovirus Reference Centre, Brisbane, AU
Chikungunya	No	PCR	ESR, Wellington
Zika	No	PCR	ESR, Wellington
Gonorrhea	Gram stain, Gene Xpert	No	N/A
HIV	Determine, Duo, Unigold, Insti, Viral Load	No	LabPlus Auckland, NZ
Influenza	Multiplex	Sequencing	ESR/NCBID Wellington
SARS-CoV-2	Yes	WGS	ESR, Wellington
Leptospirosis	No	EIA	LabPlus Auckland, NZ
Measles	No	EIA	LabPlus, Auckland, NZ
Rubella	No	EIA	LabPlus, Auckland, NZ
Syphilis	Determine, RPR, Duo	TPA, FTA	LabPlus, Auckland, NZ
Tuberculosis	Direct smear-ZN stain, Gene Xpert	Culture	LabPlus Auckland, NZ
Typhoid	Culture, Serotyping	No	LabPlus Auckland, NZ
Mpox	No	PCR	ESR, Wellington

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C. Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Hematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Yes Yes Yes	No	N/A
Biochemistry - RFTs - RBS - HbA1c - LFTs - Cardiac Enzymes - Lipid Profile - Tumour Markers	Yes Yes Yes Yes Yes Yes Yes	-CA125 -CEA -others	LabPlus Auckland, NZ
Microbiology - Urinalysis (manual or automated) - Blood Culture (manual or automated) - Culture - Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used - Fungal testing - Water testing - Food Testing	Yes Yes Yes Yes Yes Yes No No	- Some Organism ID -Typing of isolated organism	LabPlus Auckland, NZ ESR
Molecular testing - RT-PCR - HPV - HBV Viral Load	Yes No Yes		
Cytopathology - Gynae Cytology - Non-Gynae Cytology	Yes Yes	None	LabPlus Auckland, NZ
Histology	Yes	-ER/PR stain -Second opinion	LabPlus Auckland, NZ

D. EQA Providers

Institution	Panel name	No. of cycles provided
PPTC	Hematology, Molecular, Serology, Blood Bank	3
	Biochemistry	3

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E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
2023	ISO/SLIPTA	PPTC

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	*LabPlus, ESR, New Zealand; Queensland Health Scientific Services Queensland, AU, WHO Abovirus Reference Centre, Brisbane, AU.	
IATA certified Trainers	Yes. Number Certified Trainers: 1 Date Training License Expires: June ,2025	No
IATA certified Shippers	Yes. Number Certified Trainers: 1 Date Shipping License Expires: June 2025	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Air New Zealand	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with some equipment & directly into HIS but not all) Some results are manually entered into HIS
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COUNTRY:
LABNET DESIGNATION:

TUVALU
L1



A: Personnel/Contact Information

Laboratory Name	PRINCESS MARGARET HOSPITAL LABORATORY
Manager	Ms. Taupesa Latasi
Address	Princess Margaret Hospital Laboratory Ministry of Health & Social Welfare Fakaifou, Funafuti , Tuvalu
E-mail	Laboratoryservices28@gmail.com
Phone	(688) 20480 & +688 7003325
Sr. Tech/Other Contact	Ms. Patilupe Pikona
E-mail	(688) 20480
Phone	(688) 20481
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Chlamydia	Gene Xpert (using CT/NG cartridges)	No	N/A
Cholera	No	No	N/A
Dengue	Yes	Confirmation	IPNC/ ESR
Chikungunya	NO		
Zika	NO		
Gonorrhea	Gene Xpert (using CT/NG cartridges)	No	N/A
HIV	Determine, Unigold, Insti, Confirmation	CD4 & Viral Load	N/A
Influenza	Quidel-Rapid Test	PCR	Fiji CDC
SARS-CoV-2	YES	NO	Peter Doherty Institute
Leptospirosis	RDT	No	N/A
Measles	No	Confirmation	Fiji CDC
Rubella	No	Confirmation	Fiji CDC
Syphilis	Syphilis screening & VDRL/RPR	No	N/A
Tuberculosis	Direct smear-ZN stain Gene Xpert MTB Ultra cartridges	No	LabPlus, PPTC
Typhoid	S. typhi rapid test kits and Salmonella Culture	ID, confirmation	CWM Hospital Suva, Fiji
Mpox	NO	YES	Fiji CDC

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Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Hematology - Full Blood count - Blood Film Analysis - Coagulation Profile (Prothrombin time, Activated partial PT)	Yes (XP 100) Yes (Manual) Yes (Manual)	No No No	N/A
Biochemistry (Cobas 111) - RFTs - RBS - HbA1c - Liver Function Tests - Electrolytes - LDH - Cardiac Enzymes (CKMB, CK, AST, LDH) - Lipid Profile - Urate - GGT - C-Reactive Protein - Tumor Markers	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No No No No No No No No No No No	PLS
Immunochemistry (Ichroma II) - Prostate Surface Antigen (PSA) - Thyroid Function Test (T3, T4 & TSH) - Luteinizing Hormone (LH) - Follicle Stimulating Hormone (FHS) - Progesterone - Testosterone - Prolactin - Procalcitonin - Troponin-I - D-Dimer - CEA	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No No No No No No No No No No	PLS
Microbiology - Urinalysis (manual) - Blood Culture (automated) - Culture (Manual) <ul style="list-style-type: none"> - Stool Culture - Urine Culture - Pus & Wound Culture - Sputum Culture - Blood culture - Urethral & HVS & Rectal - ENT swabs - Body fluids - CSF - Miscellaneous - Identification (manual) - AST (manual) - AST International Guidelines used - Fungal testing - Water testing - Food Testing Skin smear (AFB)	Yes (Manual) Yes (FX40) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) Yes (Manual) No No No No Yes	No No	CWMH Laboratory

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C. Clinical Diagnostic Tests (cont'd)

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Molecular testing (Gene Xpert)			
- RT-PCR	Yes	No	N/A
- HPV	No	No	
- HBV Viral Load	Yes	No	
- HIV Viral Load	Yes	No	
- SARS-CoV-2	Yes	No	
Cytopathology			
- Gynae Cytology	No	Yes	PLS
- Non-Gynae Cytology	No	Yes	
Histology	No	Yes	PLS

D. EQA Providers

Institution	Panel name	No.of cycles provided
PPTC	<ul style="list-style-type: none"> - Haematology (Blood Film) - Serology (HIV, Hepatitis B& C, Syphilis, Dengue) - Blood Transfusion (Blood grouping, Crossmatch) - Microbiology - Biochemistry (RFT, Lipids, LFT, HbA1c, etc) - Immunochemistry (Troponin) 	4

E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit
2023	SLIPTA	SPC

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	Fiji Centre for Disease Control and *CWM Hospital Suva, Fiji	
IATA certified Trainers	No Certified Trainers Date Training License Expires: N/A	No
IATA certified Shippers	Yes, Number Certified Shippers: 3 Date Shipping License Expires: June 2024	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Fiji Airways (courier the Laboratory uses is DHL)	

G: Laboratory Information System

Laboratory Information System (LIS)	The PMH Laboratory do not have a LIS system in place, only the Hospital Information System (HIS)
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COUNTRY: VANUATU
LABNET DESIGNATION: L1



A: Personnel/Contact Information

Laboratory Name	PORT VILA CENTRAL HOSPITAL LABORATORY
Pathologist	Dr Crystal Garae
Email:	crysgarae@yahoo.com
Laboratory Manager	Mr. George Junior Pakoa Laboratory Manager / Manager Dental and Allied Health
Address	Vila Central Hospital, Ministry of Health Private Mail Bag 013, Port Vila, Vanuatu
E-mail	jgpakoa@vanuatu.gov.vu or georgejuniorpakoa@gmail.com
Phone	(678) 22100
Fax	(678) 26721
Sr. Tech/Other Contact	Mr. Peter Rarua Tosul
E-mail	peter_tosul@yahoo.com or ptosul@vanuatu.gov.vu
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Chlamydia	Molecular Probetech	No	N/A
Cholera	Presumptive culture	Yes	Medipole New Caledonia
Dengue	SD Dengue Combo NS1/IgM/IgG	Confirmation	WHO Arbovirus Reference Centre, Brisbane, IPNC
Chikungunya			
Zika			
Gonorrhea	Gram stain, culture Molecular ProbeTech	No	
HIV	Determine, Unigold, Insti, Viral Load	No	
Influenza	Quidel-Rapid Test Fluorescent stain	PCR	WHOCC Melbourne
SARS-CoV-2			
Leptospirosis	Elisa IgM	PCR	Institute Pasteur, New Caledonia Queensland, AU
Measles	No	Yes	Fiji CDC
Rubella	No	Yes	Fiji CDC
Syphilis	TPPA, RPR, Titer	No	N/A
Tuberculosis	Direct smear-ZN stain Gene Expert	Limited culture/ID, sensitivity	Qnsld. Mycobact. Ref. Laboratory Brisbane, AU
Typhoid	Presumptive culture	Yes	Medipole New Caledonia
Mpox			

... / ...



C. Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Hematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile			
Biochemistry - RFTs - RBS - HbA1c - LFTs - Cardiac Enzymes - Lipid Profile - Tumour Markers			
Microbiology - Urinalysis (manual or automated) - Blood Culture (manual or automated) - Culture - Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used - Fungal testing - Water testing - Food Testing			
Molecular testing - RT-PCR - HPV - HBV Viral Load			
Cytopathology - Gynae Cytology - Non-Gynae Cytology			
Histology			

D. EQA Providers

Institution	Panel name	No. of cycles provided

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E. Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F. Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	Pasteur Institute, New Caledonia; Qnsld. Health Sci Serv. Queensland, AU; *Qnsld. Mycobact Ref Laboratory, Brisbane, AU, Fiji CDC, WHO Arbovirus Reference Centre, Brisbane, AU	
IATA certified Trainers	Yes. Number Certified Trainers: Date Training License Expires:..	No
IATA certified Shippers	Yes. Number Certified Shippers: Date Shipping License Expires:	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Air Carlin, Air Vanuatu	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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COUNTRY:

WALLIS & FUTUNA

LABNET DESIGNATION:

L1

**A: Personnel/Contact Information**

Laboratory Name	SIA HOSPITAL LABORATORY
Pathologist/Manager	Dr. Jean Claude Grignon, Biologiste Laboratoire
Address	Agence de Santé du Territoire des Iles Wallis et Futuna B.P. 4G, 98600 Mata-Utu, Wallis et Futuna
E-mail	biologiste@adswf.fr
Phone	(681) 72 07 00
Fax	(681) 72 11 80
Sr. Tech/Other Contact	
E-mail	
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Chlamydia	TDR Biosynex Chlamytop PCR Xpert CT/NG	No	N/A
Cholera	Culture/ID, serotyping	No	N/A
Dengue	Panbio Dengue early rapid Platelia Dengue NS1 Ag Dengue duo cassette IgG, OgM	PCR TYPING	CHT Gaston Bourret New Caledonia
Chikungunya			
Zika			
Gonorrhea	PCR Xpert CT/NG Culture, ID	No	N/A
HIV	Elecsys HIV COMPT	No	N/A
Influenza	TRD BIOSYNEX Influenzaetop PCR Xpert Xpress FluRSV	PCR	
SARS-CoV-2	RT-PCR Xpress Xpert SARS-2 Panbio COVI-19 Ag RAPID Biosynex COVID-19 Ag BSS		
Leptospirosis	Panbio Leptospira IgM Elisa	Confirmation by MATT	Institut Pasteur New Caledonia
Measles	Vidas MSG		
Rubella	Elecsys Rubella IgG	No	
Syphilis	VDRL Fumouze, Elecsys Syphilis	Confirmation	Institut Pasteur New Caledonia
Tuberculosis	PCR Xpert MTB/RIF ultra	Direct smear, culture, ID, sensi	CHT Gaston Bourret New Caledonia
Typhoid	Culture/ID/Sensitivity	No	N/A
Mpox			

... / ...



C: Clinical Diagnostic Tests

Test Parameters	Test Performed at Laboratory	Referred Test	Current Referral Laboratory
Hematology - Full Blood count & type of Analyser - Blood Film Analysis - Coagulation Profile	Sysmex XS-1000i (2) Manual (MGG) STA COMPACT STAGO (2)		
Biochemistry - RFTs - RBS - HbA1c - LFTs - Cardiac Enzymes - Lipid Profile - Tumour Markers	VITROS 350 VITROS 350 D-10 BIO RAD (2) VITROS 350 Mini Vidas and VITROS 350 VITROS 350 Mini Vidas and Cobas e411		
Microbiology - Urinalysis (manual or automated) - Blood Culture (manual or automated) - Culture - Identification (manual or automated) - AST (manual or automated) - AST International Guidelines used - Fungal testing - Water testing - Food Testing	Manual Bact/Alert Manual Vitech 2 Vitech 2 Vitech 2, manual No No		
Molecular testing - RT-PCR - HPV - HBV Viral Load	Xpert Xpress SARS-COV-2 Xpert HPV Xpert HBV viral load		
Cytopathology - Gynae Cytology - Non-Gynae Cytology	No No		
Histology	No		

D: EQA Providers

Institution	Panel name	No.of cycles provided
EQAS BIO-RAD	Biochimie Clinique Mensuel Programme mensuel d'immuno-essais	Cycle 21 Cycle 19
PPTC	Blood Bank Hematology Microbiology Covid-19	Cycle 2022 1 and 2 Cycle 2022 1 and 2 Cycle 2022 1 and 2 Cycle 2022 1 and 2

... / ...



E: Laboratory External Audit/Assessment

Year last Audit conducted	Type of Assessment Tool (WHO Minimum Std/SLIPTA/ISO/Others)	Assessor/Agency conducting the Audit

F: Referral and Shipping Information

Recommended L2/L3 Referral Laboratory(s)	Pasteur Institute, New Caledonia	
IATA certified Trainers	Yes: Number Certified Trainers: Date Training License Expires:	No
IATA certified Shippers	Yes: Number Certified Shippers: Date Shipping License Expires:	No
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	Air Caledonie International (airline) TTI-SDV Noumea (Shipper Company)	

G: Laboratory Information System

Laboratory Information System (LIS)	Yes (LIS interphase with equipment & directly into HIS) Yes (LIS to equipment only) No Planned
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SECTION 2 - L2 LABORATORY SITES:

Country/Territory	Page
Fiji Centre for Disease Control	89
Institute Louis Malarde, French Polynesia	91
Guam Public Health Laboratory, Guam	93
Institute Pasteur New Caledonia	95

Note: In this section, * indicates a commercial or government Laboratory, not in the PPHSN-LabNet list. These Laboratories have been contracted by the country or jurisdiction and it is important to include them in the catalog for a complete understanding of all testing provisions available in the region.



COUNTRY: FIJI
LABNET DESIGNATION: L2



A: Contact/General Information

Laboratory Name	FIJI CENTRE FOR DISEASE CONTROL
Laboratory Main Contact	Dr Aalisha Sahukhan Head of Health Protection
Address	Fiji Centre for Disease Control, Mataika House Building 30, Tamavua Hospital P.O. Box 1634, Suva, Fiji
E-mail	aalisha@gmail.com
Phone	(679) 3 320 -066
Laboratory Manager Contact	Shalini Singh (Fiji CDC) / Ravendra Prasad (CWMH)
E-mail	shalinip588@gmail.com / ravendra.prasad@health.gov.fj
Phone	(679) 3 320 066 / (679) 3215571
Laboratory Testing Performed	PPHSN disease

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Chlamydia	No	No	Testing done at Divisional Laboratory
Cholera	No	Confirmation	MDU – Doherty Institute Melbourne, Australia
Chikungunya	RT PCR (Fiji CDC)	Further analysis	Institut Louis Malardé
Dengue	PanBio-IgM RT-PCR – Serotype (Fiji CDC)	Confirmation	Institut Louis Marladé– Tahiti Institut Pasteur of New Caledonia
Gonorrhea	Culture (Divisional Laboratory)	No	Testing done at Divisional Laboratory
HIV	Gene X-pert- Early Infant diagnosis, Viral Load (Fiji CDC) Confirmation (Divisional Laboratory)	No	Testing done at Divisional Laboratory
Influenza	RT-PCR (Fiji CDC)	Genotyping, vaccine studies	WHO-CC-Flu - Doherty Institute Melbourne, Australia
SARS-CoV-2	RT-PCR, GeneXpert Whole Genome Sequencing Fiji CDC)	Yes	MDU – Doherty Institute Melbourne, Australia
Leptospirosis	ELISA IgM, RT-PCR (Fiji CDC)	Confirmation	Institute Pasteur of New Caledonia
Measles	Measles ELISA Euroimmun IgM, Capture IgM RT- PCR (Fiji CDC)	Genotyping	VIDRL, Doherty Institute Melbourne, Australia
Rubella	Rubella ELISA Euroimmun IgM, Capture IgM RT- PCR (Fiji CDC)	Genotyping	VIDRL, Doherty Institute Melbourne, Australia
Syphilis	Serology	No	Syphilis testing done at Fiji divisional hospitals
Tuberculosis	Culture, AFB (DMR Laboratory, TB Hospital, Suva)	Drug Susceptibility testing and Sequencing	Queensland Mycobacterium Ref Laboratory - Australia
Typhoid	Culture	Whole Genome Sequencing	MDU – Doherty Institute Melbourne, Australia

... / ...



C: Shipping Information

Recommended L2/L3 Referral Laboratory(s)	<ul style="list-style-type: none">• Doherty Institute (VIDRL, WHO-CC Flu, MDU) Melbourne, Australia;• Institut Pasteur, New Caledonia;• Queensland Mycobacterium Ref Laboratory, Brisbane Australia;• Institut Louis Marladé Tahiti;• Fiji CDC Tamavua, Suva; C• WM Hospital Suva, Fiji
IATA certified shippers	Yes
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	<ul style="list-style-type: none">• Williams & Goslings Ltd (W&G collaborates with World Courier for international shipment);• DHL



COUNTRY: FRENCH POLYNESIA
LABNET DESIGNATION: L2



A: Contact/General Information

Laboratory Name	INSTITUTE LOUIS MALARDE
Laboratory Main Contact	Dr. Raphaëlle BOS, Pharmacienne Biologiste
Address	B. P. 30 98713 Papeete, Tahiti, Polynésie française
E-mail	rbos@ilm.pf
Phone	(689) 40 41 64 70
Fax	(689) 40 43 15 90
Sr. Tech/Other Contact	Dr Anne-Elise DECAMBRON ; Dr Maëlia ETOUNDI
E-mail	adecambron@ilm.pf ; metoundi@ilm.pf ; biologistes@ilm.pf
Phone	(689) 40 41 64 22; (689) 40 41 64 32
Fax	(689) 40 41 64 94
Laboratory Testing Performed	Full-service Laboratory testing-routine Laboratory testing, full microbiology and TB, molecular testing, all PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory – L2/L3 Location
Chlamydia	RT-PCR (Seegene)	No	N/A
Cholera	No	No	N/A
Dengue	IgM IgG VIDAS, RT-PCR (serotyping), Sanger sequencing (genotyping)	No	N/A
Chikungunya	RT-PCR	No	N/A
Zika	RT-PCR	No	N/A
Gonorrhea	Culture/ID/PCR (Seegene)	No	N/A
HIV	EIA (ROCHE) PCR viral load (Genexpert)	No	N/A
Influenza	RT-PCR (subtyping)	Genotyping	WHO-CC Melbourne, AU
SARs-CoV-2	Ag (ROCHE), RT-PCR (Seegene), Variant screening (TibmolBiol), NGS Sequencing (Oxford nanopore)	No	N/A
Leptospirosis	PanBio-IgM, PCR	Typing	Cerba Laboratory-France
Measles	WHO-IgM	IgG, IgM	Cerba Laboratory-France
Rubella	IgG/IgM (ROCHE)	No	N/A
Syphilis	TPHA (ROCHE) VDRL	No	N/A
Tuberculosis	Direct smear-ZN stain, culture/ID, sensitivity, PCR (Genexpert)	Genotyping	Cerba Laboratory-France
Typhoid	Culture/ID	No	N/A

... / ...



C: Shipping Information

Recommended L2/L3 Referral Laboratory(s)	<ul style="list-style-type: none">• WHO-CC Melbourne, Australia;• * Institut Pasteur Referral Laboratory France
IATA certified shippers	Yes
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	<ul style="list-style-type: none">• Air France,• Air Tahiti Nui,• Air New Zealand



COUNTRY: GUAM
LABNET DESIGNATION: L2

A: Contact/General Information

Laboratory Name	GUAM PUBLIC HEALTH LABORATORY
Laboratory Main Contact	Ms. Anne Marie Santos Laboratory Administrator 761 S. Marine Corps Drive Tamuning, Guam 96913
Address	
E-mail	annemarie.santos@dphss.guam.gov
Phone	(671) 300-9082
Fax	(671) 300-9098
Sr. Tech/Other Contact	Mr. Alan John Mallari, Microbiologist III; Ms. Lea Nisay, Microbiologist II
E-mail	alan.mallari@dphss.guam.gov ; lea.nisay@dphss.guam.gov
Phone	(671) 300-9080; (671) 300-9083
E-mail	Dr. Mugdha Vasireddi – Laboratory HC-CLIA Director mugdha.vasireddi@chickasaw.com
Laboratory Testing Performed	General Laboratory testing, PPHSN disease testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory-L2/L3 Location
Chlamydia	Cepheid Xpert CT/NG (PCR)	No	N/A
Cholera	No	Yes	Diagnostic Laboratory Services Guam
Dengue	Trioplex (Dengue/Chikungunya/Zika) PCR	Serology	CDC Dengue Reference Laboratory, Puerto Rico
Gonorrhea	Cepheid Xpert CT/NG (PCR), GC culture/ID, sensitivity	No	N/A
HIV	Alere Determine HIV ½ Ag/Ab Combo	Confirmation, Viral load, CD4	Diagnostic Laboratory Services Honolulu-Hawaii, USA
Influenza	Cepheid Xpert COV2/FLU/RSV (PCR), CDC FLU SC2 Multiplex PCR, CDC Flu r-RT PCR Dx Panel Detection-Subtyping	No	N/A
SARS-CoV-2	Cepheid Xpert COV2/FLU/RSV (PCR), CDC FLU SC2 Multiplex PCR	No	N/A
Leptospirosis	Linnodee Leptorapide	Confirmation-serology, PCR	WHO-CC, Melbourne, Australia
Measles	ELISA-BIOTEK	Confirmation-serology	CDC Atlanta, USA
Rubella	ELISA-BIOTEK	No	N/A
Syphilis	RPR, TPPA	No	N/A

... / ...



C: Shipping Information

Recommended L2/L3 Referral Laboratory(s)	<ul style="list-style-type: none">• *Diagnostic Laboratory Services• *Univ of Hawaii-Trop. Med Dept Hawaii, USA• *CDC Atlanta, USA• WHO-CC Melbourne, Australia
IATA certified shippers	Yes
Airline/Cargo companies the Laboratory uses to ship to L2/L3 Laboratory	United Airlines / AMBYTH Logistics



COUNTRY: NEW CALEDONIA
LABNET DESIGNATION: L2



A: Contact/General Information

Laboratory Name	INSTITUT PASTEUR OF NEW CALEDONIA
Laboratory Main Contact	Dr Myrielle Dupont-Rouzeyrol, PhD
Address	Institut Pasteur de Nouvelle-Calédonie B.P. 61 98845 Nouméa Cedex, Nouvelle Calédonie _
E-mail	mdupont@pasteur.nc
Phone	(687) 27 75 30
Fax	(687) 27 33 90
Sr. Tech/Other Contact	Dr Roman Thibeaux, PhD
E-mail	rthibeaux@pasteur.nc
Phone	(687) 27 26 66
Laboratory Testing Performed	Arboviruses and Leptospirosis testing

B: PPHSN Target Disease Testing Information

Target Disease	Test Performed at Laboratory	Referred Test	Referral Laboratory – L2/L3 Location
Chlamydia	No	N/A	N/A
Cholera	N/A	N/A	N/A
Dengue	<ul style="list-style-type: none"> RT-PCR (detection includes dengue, chikungunya, Zika and other arboviruses – dengue typing), Sequencing, Virus isolation, PRNT (dengue, Zika, chikungunya, RRV...) for research purpose 	No	N/A
Gonorrhea	N/A	N/A	N/A
HIV	N/A	N/A	N/A
Influenza	N/A	N/A	N/A
SARS-CoV-2	N/A	N/A	N/A
Leptospirosis	MAT (Microagglutination test), PCR, Sequencing for research purpose	No	N/A
Measles	N/A	N/A	N/A
Rubella	N/A	N/A	N/A
Syphilis	N/A	N/A	N/A
Tuberculosis	N/A	N/A	N/A
Typhoid	N/A	N/A	N/A

... / ...



C: Shipping Information

Recommended L2/L3 Referral Laboratory(s)	Institut Pasteur Referral Laboratorys or CIBU, Paris, France
IATA certified shippers	Yes
Airline/Cargo companies the Laboratory uses to handle shipments	Air Calin, Freight forwarder: ACT Nouméa, Adélie Plourdeau, Phone : (687) 27 04 38, Fax : (687) 28 61 30, Email : export@act.nc



SECTION 3 - L3 LABORATORIES:

Country, City or State	Name of Laboratory
Australia, Adelaide	*Institute of Medical and Veterinary Science (IMVS)
Australia, Victoria	National Serology Reference Laboratory (NRL)
Australia, Queensland	*Queensland Mycobacterium Reference Laboratory (QMRL)
Australia, Queensland	*Queensland Medical Laboratories (QML)
Australia, Queensland	WHO Arbovirus Reference Centre (QUT)
Australia, Melbourne	Victoria Infectious Diseases Reference Laboratory (VIDRL)
Australia, Melbourne	WHO-Collaborating Center for Influenza (WHO-CC)
France	*Pasteur Institute
New Caledonia	Pasteur Institute (IPNC)
New Zealand, Porirua	Institute of Environmental Science and Research (ESR)
New Zealand, Auckland	*LabPlus
USA, Atlanta	Centers for Disease Control Laboratories (CDC)
USA, Hawaii	*Diagnostic Laboratory Services (DLS)
USA, Hawaii	State of Hawaii Public Health Laboratory (HSL)
USA, Hawaii	*University of Hawaii-School of Tropical Medicine (UHTM)

* Indicates a commercial or government Laboratory, not in the PPHSN-LabNet list. These Laboratories have been contracted by the country or jurisdiction and it is important to include them in the catalog for a complete understanding of all testing provisions available in the region.



L3 Laboratory: Victorian Infectious Diseases Reference Laboratory (VIDRL) Country: Australia

1. Polio Testing

Victorian Infectious Diseases Reference Laboratory (VIDRL) at The Peter Doherty Institute for Infection and Immunity (The Doherty) acting through Melbourne Health is the WHO national poliovirus reference Laboratory for the Pacific Island countries and territories (PICTs), in addition to its role as a regional poliovirus reference Laboratory for the Western Pacific region. VIDRL is also a WHO Western Pacific regional reference Laboratory for measles. VIDRL provides a LabNet Level 3 service to PICTs as part of its WHO regional reference Laboratory role.

The WHO role of VIDRL includes testing for polioviruses from all patients with acute flaccid paralysis and testing for measles virus in suspected cases or outbreaks. The differential diagnosis of measles testing includes testing for rubella and human parvovirus. In general, VIDRL will test 10–20 specimens from an outbreak at no cost, but transport to VIDRL needs to be arranged and paid for by the referring Laboratory. Results are sent by e-mail or fax whenever possible, with a paper copy to follow.

2. Contact Information

For specific enquiries about poliovirus testing, contact should be made directly with the Laboratory. It is important to contact the Laboratory prior to each shipment.

Contact of the polio testing Laboratory:

Bruce Thorley, PhD

National Enterovirus Reference Laboratory WHO Polio Regional Reference Laboratory

Victorian Infectious Diseases Reference Laboratory

The Peter Doherty Institute for Infection and Immunity

792 Elizabeth Street, Melbourne, Victoria, Australia 3000

Phone: +61 3 9342 2607

Email: polio@mh.org.au

3. Specimen Instructions

All specimens from AFP cases and enterovirus isolates for testing and identification should be forwarded to the poliovirus reference Laboratory at VIDRL. Samples must be safely packaged to ensure that there is no leakage in transit. Sufficient ice bricks should be included to keep the contents chilled in case of delays in delivery. Include a Label 'Shipment to be kept at 4°C whenever possible'.

Shipments sent by air must adhere to airline safety regulations as specified for:

- diagnostic specimens IATA packing instruction 650; and
- Infectious substance IATA packing instruction 602.

All specimens must be packed strictly in accordance with airline and IATA regulations for shipping biological specimens:

For further details on shipping, refer to the WHO guidelines for safe transport:

<https://www.who.int/publications/i/item/9789240019720>

Virus isolates and clinical specimens arriving from outside Australia will require an Australian Quarantine Inspection Service (AQIS) import permit, which is available upon request. A copy (fax or photocopy is acceptable) of the import permit MUST BE INCLUDED with the shipping documents and the package.

Please contact the Senior Scientist to obtain a valid import permit, using the appropriate contact information above.



L3 Laboratory: Queensland Health Forensic Scientific Services (QHFSS) Country: Australia

1. Testing Information

Leptospirosis

- PCR – bacterial DNA detection
- MAT – serological detection and serotyping Serum 0.2mL minimum volume
- Frozen or +4°C (frozen preferred)

Note: This testing is performed by Scott Craig of the WHO/OIE Leptospirosis Collaborating Centre, which is in an adjoining Laboratory.

Virology

- PCR – virus DNA/RNA detection (e.g. Rabies/Australian Bat Lyssavirus, Flaviviruses, Alphaviruses, other exotic viral diseases where medically warranted and requested by senior medical officers in the Departments of Health of Pacific Island countries)
- Serology – detection of antigen antibody in serum Serum 0.5mL minimum volume
- Frozen or +4°C

2. Specimen Instructions

For all samples

Required information: Patient name; date of birth; referring Laboratory identifying number.

Preferred information (in addition to above): Sex, date of onset, date of collection, recent vaccination, recent overseas travel history

3. Contact Information

Frederick Moore – all viral testing,

Phone: (61) 7 3096 2899

E-mail: Frederick.moore@health.qld.gov.au

Scott Craig – leptospirosis testing Public Health Virology

Phone: (61) 7 3096 2816

E-mail: scott.craig@health.qld.gov.au

Queensland Health Forensic Scientific Services

39 Kessels Road

COOPERS PLAINS QLD 4109 AUSTRALIA

Fax: +61 7 3096 2878

Additional information regarding the services provided by QHFSS can be obtained at its website:

<https://www.health.qld.gov.au/healthsupport/businesses/forensic-and-scientific-services/testing-analysis/diseases>.

4. Specimen Shipping Instructions

Guidelines for sending serum samples to QHSS (arboviruses and leptospirosis)

The Department of Agriculture and Water Resources (DAgWR – formerly AQIS) strictly enforces the regulations regarding the transport of all material (including diagnostic specimens) into Australia. Unless all the documentation has been completed correctly and the samples have been packaged according to IATA guidelines, they will refuse to release the material and it may be destroyed.



These requirements are in addition to what the airline may require. You will need to fulfil all of the requirements of the airline as well as those listed below.

- All documentation must be signed (it is not sufficient to type your name).
- A list of the contents (called a 'Suppliers Declaration') AND a copy of a current import permit must be affixed to the outside of the container (it is a good idea to include a copy on the inside as well). The documents attached on the outside of the package should be in an envelope with the Label '**Attention Quarantine**'.
- Please include all the information below on the declaration on your company letterhead for Suppliers Declaration (see example below):
 - Air Waybill number
 - The date
 - Description of the goods being shipped: e.g. Human serum for Leptospirosis serological testing. Samples taken from persons with no signs and symptoms of the diseases listed in section XXX of the Permit 0000XXXXXXX.
 - Origin of the goods – egg Human
 - The reason for exporting the material: e.g. Laboratory testing
 - The Import Permit Number – in this case: e.g. Permit 0000784593 (valid between 14 June 2017 and 14 June 2019) for Import of Human fluids and Tissues.
 - The Import Permit Condition – in this case: Permit condition X which is on page 4 of the permit.

Suppliers Declaration

To: Frederick Moore (*or S. Craig for lepto*)
Queensland Health Scientific Services
39 Kessels Road
COOPERS PLAINS QLD 4109 AUSTRALIA
Phone: (61) 7 3096 2899 (*or (61) 7 3096 2816 for Scott Craig*)

Date:

Air Waybill Number:

DAGWR permit number (contact the Laboratory to obtain the current DAGWR permit number to use) Permit Condition and Page number

The package contains a total of 7 vials consisting of:

- 4 x vials each containing 0.5mL of human serum for diagnostic purposes
- 3 x vials each containing 1.0mL of human serum for diagnostic purposes
- Tests requested: Dengue exclusion (*or lepto or other arbovirus*) Signature

Joe Bloggs Scientist- in-charge
A Pacific Island Country Health Facility
Phone number:
Fax number:



WHO Measles Regional Reference Laboratory of the Western Pacific Region – Melbourne (WHO- MRRL) Country: Australia

1. General Information

The WHO Measles Regional Reference Laboratory in Melbourne is one of three regional reference Laboratories in the Western Pacific Region (WPR). The other regional reference Laboratories are in Hong Kong and Beijing. All three Laboratories provide technical support, guidance and hands-on training to the national measles Laboratories of the WPR. These Laboratories form part of a regional and global network of Laboratories involved in the detection of disease and case-based surveillance for achieving elimination of endemic measles and rubella transmission. For more information, see the website: <https://www.who.int/immunization/diseases/measles/en/>

As part of its WHO regional reference Laboratory role, the WHO-MRRL in Melbourne conducts serologic and molecular investigation of suspected measles and rubella cases. The Laboratory also performs extensive molecular investigation of samples to determine measles and rubella genotypes circulating in countries of the WPR. The Laboratory's website has details of relevant contact people and location.

For further details, see www.vidrl.org.au

2. Contact Information

Contact persons:

Dr Mike Catton
Director

Dr Julian Druce
Section Head, Virus Identification Laboratory

Ms Suellen Nicholson
Section Head, Infectious Diseases Serology Laboratory
Direct Phone: (61) 3 9342 9646
Fax: (61) 3 9342 9676

Mr Thomas Tran
Deputy Senior Scientist, Virus Identification Laboratory
Direct Phone: (61) 3 9342 9623
Fax: (61) 39342 9629

Ms Vicki Stambos
Scientist, WHO Measles Regional Reference Laboratory (WPR)
Phone: (61) 3 9342 9600

Shipping address

Scientist in charge

WHO Regional Measles Reference Laboratory of WPR Victorian Infectious Diseases Reference Laboratory
The Doherty Institute
792 Elizabeth Street Melbourne
3000 Victoria AUSTRALIA

Note: Please contact the Virus Identification Laboratory for molecular testing or Infectious Diseases Laboratory for serologic testing before shipping any specimens.

3. Testing Information

Tests available

Detection of immunoglobulin G (IgG) and immunoglobulin M (IgM) antibodies to measles and rubella using commercial enzyme-immunoassay kits is performed in the Infectious Diseases Serology Laboratory. Real-time RT-PCR for measles and rubella as well as sequencing of wild type strains is conducted in the Virus Identification Laboratory. The Laboratory also performs rapid testing using a real-time PCR assay for the identification of vaccine strains.

4. Specimen Requirements

Maximum number of samples and cost of testing

The number of samples referred to WHO-MRRL will be determined by senior personnel at the referring Laboratory, WHO-MRRL and the Laboratory coordinator of the WPR. WHO-MRRL performs serologic and molecular testing of specimens referred by designated national measles Laboratories within the WPR at no cost to the referring Laboratory.

Required patient / sample details

- ID: Laboratory number or reference number or name
- Sample: Date of sample, type of sample (NPA, nose/throat swab, urine, serum, etc)
- Patient details: Date of birth, sex, date of rash onset, immunization status, clinical details A template for completion of these details can be emailed to the shipping Laboratory onrequest.

Samples and minimum volumes required

The following samples are accepted by WHO-MRRL for the purpose of diagnosis and confirmation of measles or rubella infection:

By serologic methods: IgM and IgG detection

Sample type	Volume required	Suitable collection time	Comments	Suitability (1=most suitable, 3=least suitable)
Serum */ Plasma	300 microlitres*	Between 4 and 28 days post rash onset		1
Dried venous blood	3 (14mm) full blood spot dried on filter paper	Between 4 and 28 days post rash onset	Can be whole blood, finger or heel prick	1

*For specimens deviating from the volume specified, please contact WHO-MRRL: measles@vidrl.org.au

By molecular methods: virus RNA detection and genotyping

These volumes are additional to that required for serology. Samples for RNA detection should not be frozen prior to shipping but should remain cold (4°C).

Sample type	Volume required	Suitable collection time	Comments	Suitability (1=most suitable, 3=least suitable)
Nose/throat swab or nasopharyngeal swab or nasal aspirate	200 microlitres	Up to 3 weeks post rash onset	Swab placed in sterile Viral Transport Medium or PBS	
Urine	200 microlitres	Up to 4 weeks post rash onset		2
Oral fluid collected using device recommended in WHO manual	200 microlitres	Within 14 days of rash onset	Sampling device must not contain serum stabilizer	2
Dried venous blood	1 (14mm) full blood spot dried on filter paper	Within 7 days of rash onset	Can be whole blood, finger or heel prick	2
Serum*/Plasma	200 microlitres	Within 7 days of rash onset		2
PBMC (peripheral blood mononuclear cells from EDTA or heparinised blood)	200 microlitres	Up to 3 weeks post rash onset		3

5. Shipping Instructions

Shipping conditions

Samples for serologic testing can be shipped at ambient temperature. Samples for RNA detection should not be frozen prior to shipping but should remain cold (4°C). It is preferable that all shipments be sent at the beginning of the week to enable maximum time for clearance at customs and avoid unnecessary delay. It is recommended that the sender discuss the method of shipping with WHO-MRRL prior to shipping samples by email: measles@vidrl.org.au

Please note that countries are responsible for communicating with reference Laboratory before and post shipment of samples. Laboratories should have SOP clearly stating shipment procedures including packing, Labelling, tracking of shipment and management of results when received in the country.

For high-priority specimens (Biohazard level 1 organisms) and urgent samples requiring testing and confirmation, there should be an established pathway of communication within the countries and all external partners involved in the shipment. Countries requiring shipment support for PPHSN priority diseases confirmation can contact SPC Dr. Eka Buadromo; ekab@spc.int for assistance.

Shipping costs

Shipping costs incurred are at the sender's expense.



Administration/customs information

ALL samples sent to WHO-MRRL from outside Australia MUST have:

1. a customs declaration of imported goods (description of goods, volume, quantity, statement of value, packed according to IATA guidelines, diagnostic specimens not for commercial use, country of origin) on your own letterhead; and
2. the AQIS import permit (applicable if samples other than serum are shipped). A template for 1 and a pdf copy of 2 can be e-mailed to the Laboratory prior to shipping. The forms MUST accompany the package.

All diagnostic specimens (shipped as biological substance, Category B) must be packaged according to IATA 650 guidelines (or P650). All infectious substances must be packaged according to IATA 620 guidelines (or P620)

For packing instructions, see the **IATA Dangerous goods regulations**: <http://www.iata.org>

Include AQIS customs import permit (if applicable), and Label box with appropriate storage conditions.

Exempt

Dried blood spots collected for blood screening tests may be transported to the Laboratory at ambient temperature. However, the samples must be thoroughly dry before they are packed and transported. Dried blood spots are NOT subject to IATA Dangerous Goods Regulations. For further information refer to <http://www.iata.org>



COVID-19 REFERENCE LABORATORIES FOR THE PACIFIC

Laboratory and contact	Shipping requirements	Turnaround time for results	Preferred shipping agent	Testing cost (as of 18/2/20)
Victorian Infectious Disease Reference Laboratory (VIDRL) Melbourne Health 792 Elizabeth Street Melbourne, VIC, 3000 Australia Dr Julian Druce Julian.Druce@mh.org.au	Cat B Box (refer to Table 1 on guide for sample collection and storage)	24 hours from receipt	World Courier Import permit already shared with countries	Free
Institut Louis Malardé (ILM) Pharmacienne Biologiste BP 30 - 98713 Papeete, Tahiti Polynésie Française Dr Raphaëlle Bos rbos@ilm.pf	Cat B Box (refer to Table 1 on guide for sample collection and storage)	24 hours from receipt	No preference	Please consult WHO Pacific2019nCoV@who.int
Medipole Laboratoire de Microbiologie 110, boulevard Joseph-Wamytan BPJ5, 98849 Noumea New Caledonia Dr Ann-Claire Gourinat Ann-Claire.Gourinat@cht.nc	Cat B Box (refer to Table 1 on guide for sample collection and storage)	24 hours from receipt	No preference Import permit not required	Not exceeding 15000XPF
ESR NCBID 66 Ward Street Wallaceville Upper Hutt 5018 New Zealand DrAngela Brounts angela.brounts@esr.cri.nz	Cat B Box (refer to Table 1 on guide for sample collection and storage)	24 hours from receipt	World Courier Import permit not required	Please consult WHO Pacific2019nCoV@who.int
United States CDC 1600 Clifton Road NE Atlanta GA 30329, USA Dr Sixiang Tong, sot1@cdc.gov Dr Stephen Lindstrom, sl5@cdc.gov	Follow CDC shipping guidelines from USAPI to CDC	24 hours from receipt	Follow USCDC shipping guidelines from USAPI to CDC	Reference Laboratory for U.S. Affiliated Pacific Islands (USAPI) ⁶
Hawaii State Laboratory 2725 Waimano Home Road Pearl City, Hawaii, 96782, USA Dr. Sarah Park sara.park@doh.hawaii.gov Ed Desmon Edward.desmond@doh.hawaii.gov	Follow USCDC shipping guidelines from USAPI to Hawaii	24 hours from receipt	Follow USCDC shipping guidelines from USAPI to CDC	Reference Laboratory for U.S. Affiliated Pacific Islands (USAPI)
Guam Public Health Laboratory RAN-CARE Commercial Building Central 3rd Floor, Suite A-3 761 South Marine Corps Drive Tamuning, GUAM 96913 Anne-Marie Santos annemarie.santos@dphss.guam.gov	Cat B Box (refer to Table 1 on guide for sample collection and storage)	24 hours from receipt	United Airlines/Air Pacific Airlines/Pacific Cargo	Reference Laboratory for U.S. Affiliated Pacific Islands (USAPI)



L3 LABORATORIES (WHO COLLABORATING LABORATORIES)

1.	New Zealand	Institute for Environment Science & Research/National Centre for Biosecurity for Infectious Disease Wellington (ESR/NCBID)	Dr Leeanne Olsen Leeanne.Olsen@esr.cri.nz	Ph: 64 4 27 65 35 681 Fax: 64 4 529 0601
2.	Hawaii	Hawaii State Laboratory, Honolulu	Dr A C Whelen chris.whelen@doh.hawaii.gov	Ph: (808) 453 5993 Fax: (808) 251-4014
3.	Australia	WHOCC for Influenza Melbourne (VIDRL)	Dr Patrick Reading preading@unimelb.edu.au	Ph: +613 9342 9300 Fax: +613 9342 9329
4.	Australia	WHOCC for Measles Melbourne (VIDRL)	Dr Mike Catton mike.catton@mh.org.au	Ph: 613 9342 9600 Fax: 613 9342 9696
5.	Australia	WHOCC for Arbovirus Queensland (QUT)	Dr John Askov j.askov@qut.edu.au	Ph: 617 3138 6193
6.	Australia	WHOCC for Leptospirosis Queensland (QHFSS)	Dr Lee Smythe lee.smythe@health.qld.gov.au	Ph: +617 3274 9151 Fax: +617 3000 916

L3 LABNET LABORATORIES

7.	Australia	National Reference Laboratory (NRL) Melbourne	Dr Kim Wilson kim@nrlquality.org.au	Ph: 61 3 94181156
8.	Australia	Queensland Health & Forensic Science (QHFSS)	Dr Alyssa Pyke Alyssa_pyke@health.qld.gov.au	Ph: +617 3274 9151 Fax: +617 3000 916
9.	Australia	New South Wales State Reference Laboratory for HIV	Philip Cunningham p.cunningham@amr.org.au	Ph: +61 2 8382 4900 Fax: +61 2 8382 4901



ESR – Institute for Environment Science & Research Centre

1. To access the updated information on ESR current Laboratory test menu including information for sending samples to ESR, please click on this link: <https://www.esr.cri.nz/Laboratory-test-catalogue/>
2. For all microbiology testing needs including AMR testing, please contact:
Dr Leeanne Olsen
Microbiology Service Lead, ESR
Phone: (64) 4 888 7155
Mobile: (64) 27 275 7317
Email: Leeanne.Olsen@esr.cri.nz



Quality Assurance and Quality Control

Proper specimen collection, storage and transport are critical in the performance of SARS-CoV-2 testing on Genexpert and hence procedures as already highlighted in this document on proper collection, storage and transport of samples to be tested should be strictly adhered to so as to obtain timely, accurate and meaningful test results to guide implementation of effective interventions to control the outbreak and better manage cases affected with SARS-CoV-2.

To monitor the quality performance of laboratories on their SARS-CoV-2 testing, it is crucial that laboratories constantly provide a monthly feedback to SPC/WHO on the monthly data on the outcome of the 9 key performance indicators (KPIs) shown below:

1. Total# Xpert SARS-COV-2 run
2. Total # successful Xpert tests
3. Total # unsuccessful Xpert tests
4. Total # Xpert SARS-COV-2 positive
5. Total # Xpert SARS-COV-2 Presumptive positive
6. Total # Xpert SARS-COV-2 negative
7. Total # error results
8. Total # invalid results
9. Total # no results

These 9 KPIs will be captured on an in-house monitoring tool developed by SPC/WHO which will help identify whether the testing laboratory is encountering errors in its testing processes that will call for immediate action to rectify potential problems so that the quality of the result is not compromised. This is an important monitoring step before conducting further SARS-CoV-2 testing. The monitoring tool also assist testing laboratories to monitor cartridge usage hence ensures that supplies are monitored to avoid unnecessary stock-outs and determine positivity rates and as well as successful run monthly.

Laboratories performing SARS-CoV- 2 testing are also required to participate in any organised External Quality Assurance Programme (EQAP). The JIMT Lab Cell is working closely with PPTC to organise EQAP with laboratories doing SARS-CoV-2 testing. The programme is supported by WHO.

As proper collection is so critical in the outcome of SARS-CoV-2 test results, recommended procedures for collecting samples for testing are illustrated in Annex A.

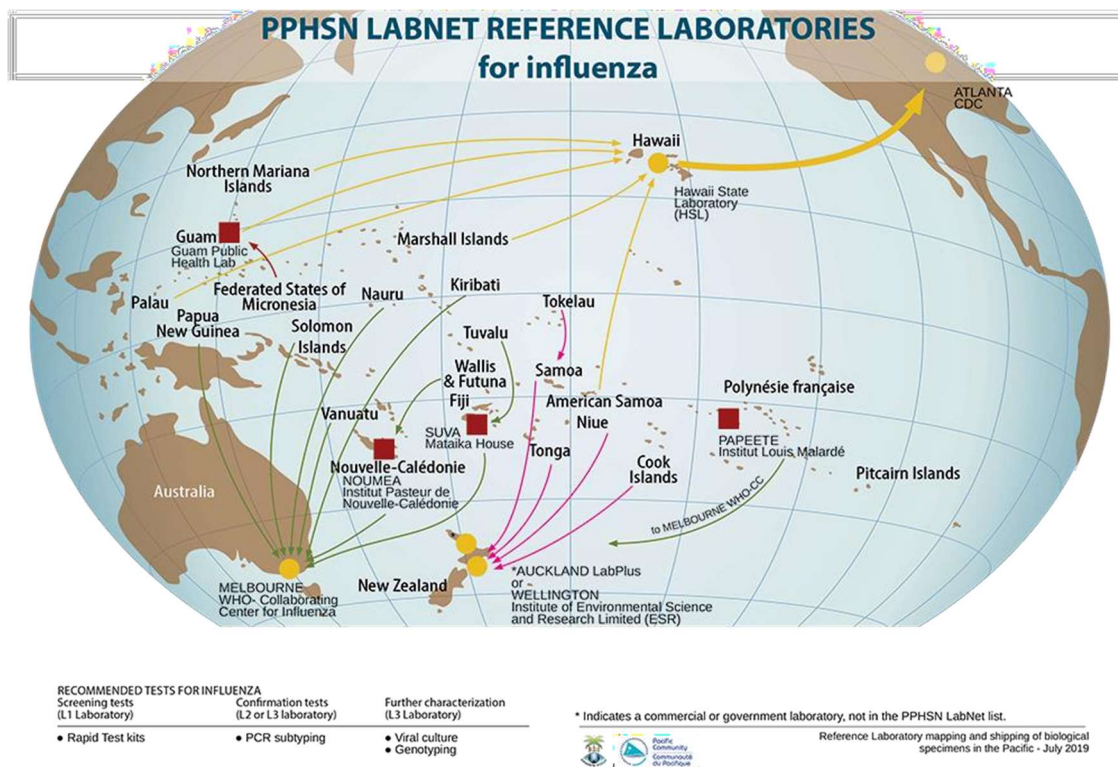
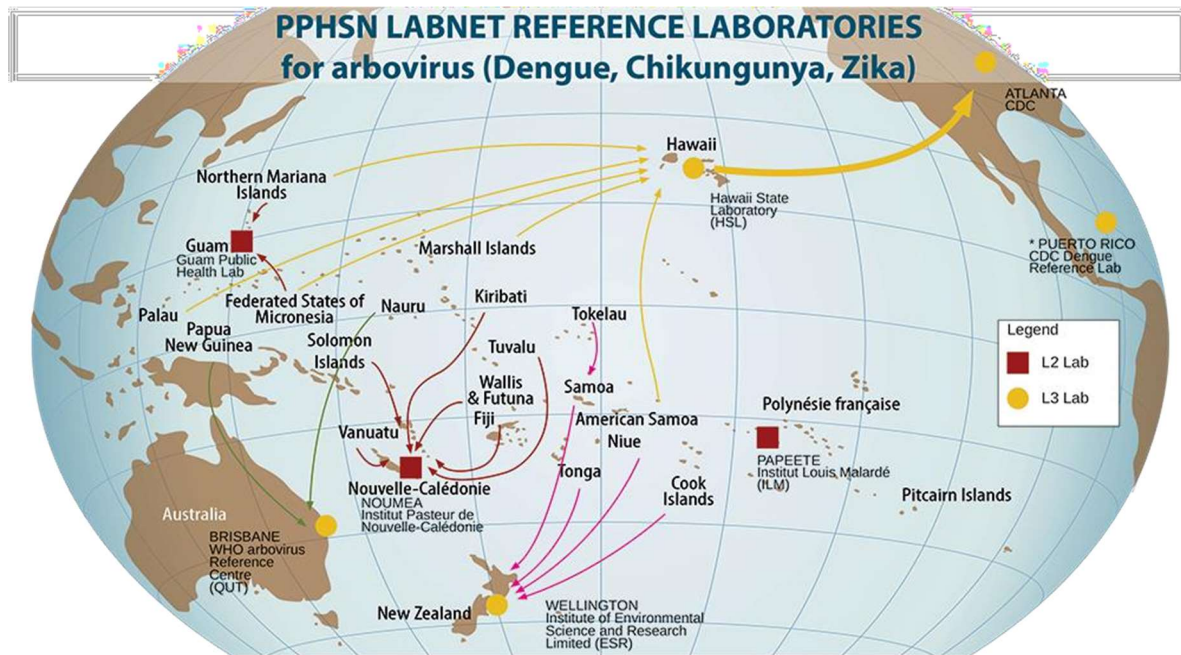
Packaging of clinical specimen for shipment to reference laboratory

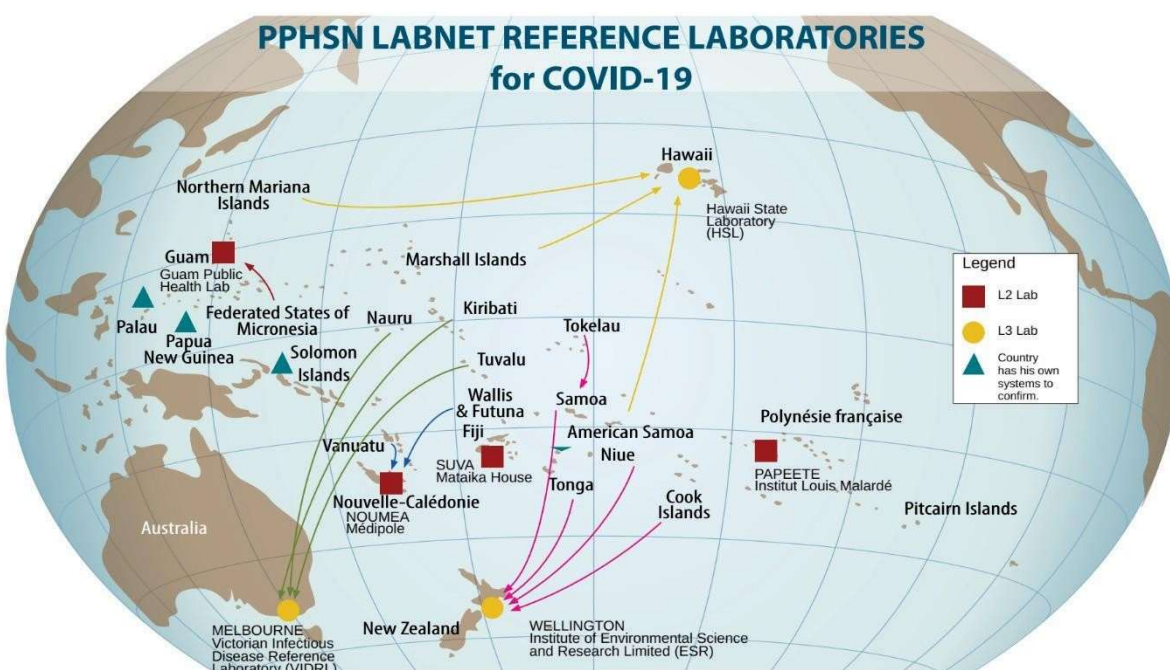
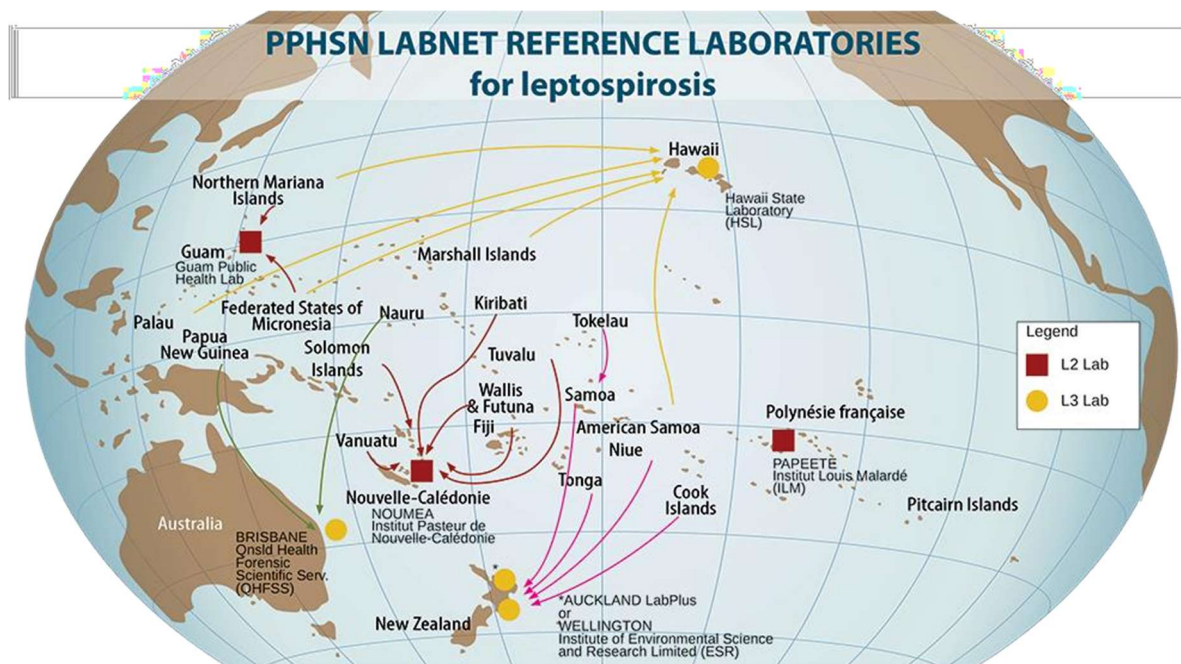
Proper storage, packing and shipment of specimen should also be observed to ensure integrity of the specimen. Storage and shipping requirements are summarized in a table (see Annex B). Below are additional reminders for shipping clinical specimen.

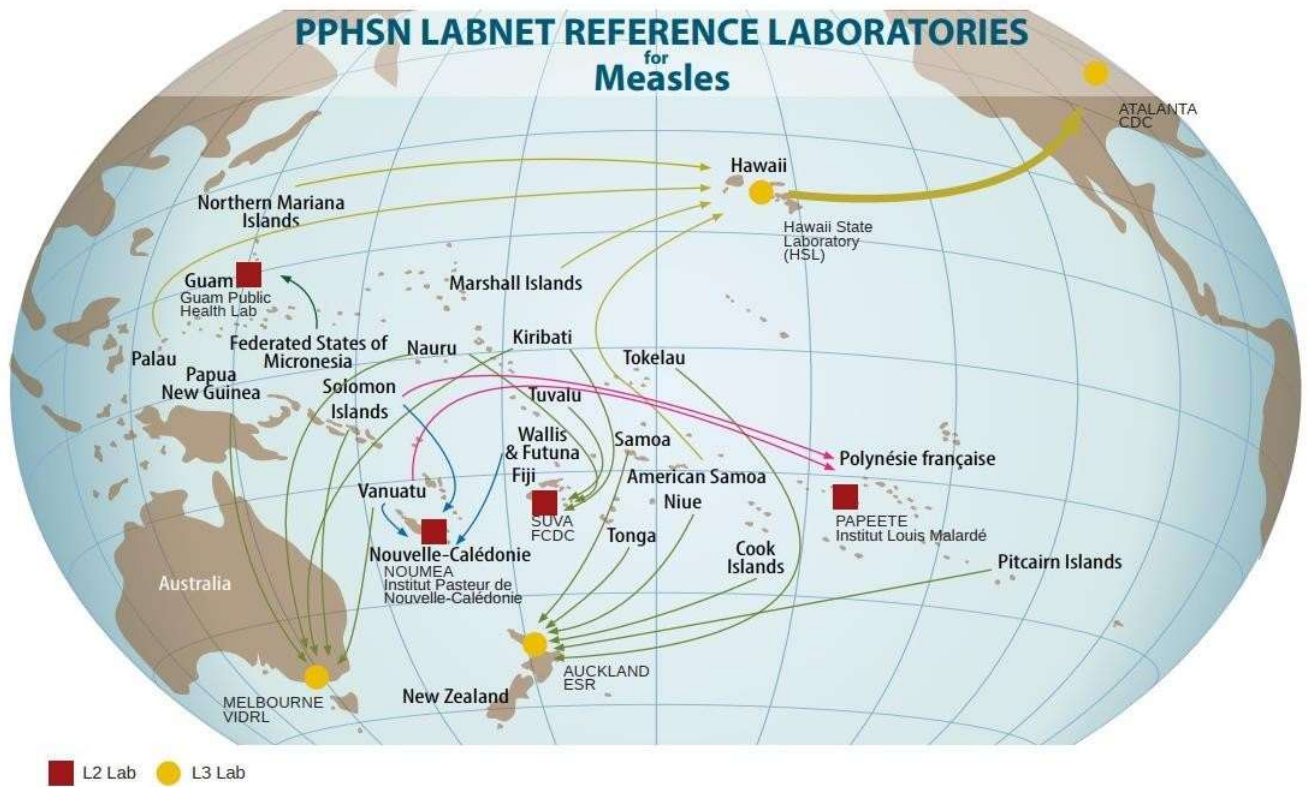
- Trained and certified shippers with a valid certificate should pack clinical specimens for airline transfer to the
- national or international reference laboratory.
- Follow WHO Guidance on regulations for the transport of infectious substances 2019–2020 on the use of
- triple packaging system (Category B – UN3373)
- Ensure packaging, marking and labelling, and documentation meets all requirements for Category B
- Shipments.

If the specimen is taken in an outer health facility, notify the national laboratory in advance to expedite specimen handling and referral, and ensure safe specimen handling and transfer to the local laboratory before it is sent to the reference laboratory

MAPPING PPHSN LABNET LABORATORIES FOR TESTING OF DENGUE FEVER, CHIKUNGUNYA, ZIKA, INFLUENZA, LEPTOSPIROSIS, COVID-19 AND MEASLES







Reference laboratory mapping and shipping of biological specimens in the Pacific - June 2024



SECTION 4

Key LabNet Contacts:

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ACRONYMS:

CDC	Centers for Disease Control and Prevention
FNU	Fiji National University
IPNC	Institut Pasteur in New Caledonia
NRL	National Reference Serology Laboratory
PPHSN	Pacific Public Health Surveillance Network
PIHOA	Pacific Island Health Officers' Association
PPTC	Pacific Pathology Training Centre
QHFSS	Queensland Health Forensic Scientific Services SPC The Pacific Community
WHO	World Health Organization
WHO-MRRL	WHO Measles Regional Reference Laboratory of the Western Pacific Region – Melbourne

For more information on PPHSN LabNet Catalogue, please contact:



Pacific
Community
Communauté
du Pacifique

Laboratory Strengthening Programme
Public Health Division
Pacific Community (SPC)
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