

## LabNet: LABORATORY TECHNICAL RE-ASSESSMENT – LEVEL 1 LABORATORIES – 2003

### INFORMATION ON DIAGNOSTIC CAPACITIES WITH REGARDS TO SPECIFIC COMMUNICABLE DISEASES

Test routinely performed or available in the laboratory

Country	MEASLES		DENGUE	
	Routinely performed or available	Specimen sent to overseas laboratories	Routinely performed or available	Specimen sent to overseas laboratories
American Samoa	None	Dpt of Laboratory Services Hawaii (Approx 1-5 tests/month)	None	Dpt of Laboratory Services Hawaii + CDC (Specimen rarely sent)
Cook Islands	N.A.	Auckalnd Hospital Lab (Lab plus) NZ	Panbio Ab test strips IgM / IgG antibodies Full blood counts (HCT, WCC, platelets) APTT	Queenland Virology Laboratory, Australia for serotyping - PCR
Fed. States of Micro.	N.A.	Hawaii Public Health Laboratory (0-2/months)	N.A.	Hawaii Public Health Laboratory (0-1/month)
Fiji				
French Polynesia	None	Laboratoire Cerba France Fréquence: 0	Sérologie IgM (IgG) PCR, isolement et culture virale	
Guam	No	- CDC Atlanta - Microbial Dis. Laboratory Richmond California	No	- CDC Atlanta - Microbial Dis. Laboratory Richmond California
Kiribati	None	VIDRL, Melb. Australia (every 2 -3 months)	Panbio	VIDRL, Melb. Australia (every 2-3 months)
Marshall Is.	N.A.	- CDC (once a week) - VIDRL, Melb. Australia - Aloha Lab Hawaii (once a week)	N.A.	- CDC (once a week) - VIDRL Melb. Australia - Aloha Lab Hawaii (once a week)
Nauru				
New Caledonia				
Niue	N.A.	Lab Plus, Auckland Hospital	Panbio	
Northern Mariana Is.				
Palau	None	DLS Hawaii	Rapid Strip Test IgM / IgG	
PNG				
Samoa		- VIDRL Melbourne, Aust - Lab Plus, Auckland (NZ)	Panbio test Kit	Confirmation at - Mataika House, Fiji, or - VIDRL, Melbourne, Aust - Royal Brisbane, Aust
Solomon Is.				
Tonga	No	Lab Plus New Zealand	Panbio reagents when available (eg if funded by WHO)	Lab Plus New Zealand
Tokelau	None	None	None	None
Tuvalu	N.A.	So far no measles cases have encountered yet	N.A.	CWM Hospital Suva Fiji (occasionally, so far there was no dengue case occurred the past 2 years)
Vanuatu	None	None	Panbio Rapid test	New Caledonia Pasteur Institute
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**LABNET: LABORATORY TECHNICAL RE-ASSESSMENT – LEVEL 1 LABORATORIES**

Country	CHOLERA		RUBELLA	
	Routinely performed or available	Specimen sent to overseas laboratories	Routinely performed or available	Specimen sent to overseas laboratories
American Samoa	Culture	Dpt of Laboratory Services Hawaii & CDC (Requests rarely received , none sent so far)	None	Dpt of Laboratory Services Hawaii & CDC (Requests rarely received ,)
Cook Islands	Culture (TCBs)	Auckland, NZ for serotyping	None	Auckland Lab Plus, NZ
Fed. States of Micro.	APW, TCBs	Guam Public Health Laboratory (0/month)	N.A.	Hawaii Public Health Laboratory (0/month)
Fiji				
French Polynesia	Coproculture + antibiogramme 0 cas en 2003	Sérologie réalisée au Laboratoire Cerba France Fréquence: 0	Sérologie IgM - IgG	
Guam	Yes		Yes	
Kiribati	Culture, serotyping & sensitivity testing		None	VIDRL, Melb. Australia (every 2-3 months)
Marshall Is.	Culture/Sero Typing		N.A.	- CDC (once a week) - VIDRL Melb. Australia - Aloha Lab Hawaii (once a week)
Nauru				
New Caledonia				
Niue	N.A.	Lab Plus, Auckland, NZ Auckland Hospital	N.A.	Lab Plus, Auckland, NZ Auckland Hospital
Northern Mariana Is.				
Palau	None	DLS Hawaii	None	DLS Hawaii
PNG				
Samoa	Blood culture (BC100) Group	- Lab Plus, Auckland, NZ	None	- Lab Plus, Auckland, NZ - VIDRL, Melbourne, Aust
Solomon Is.				
Tonga	Can do if needed. But so far, no request for last 10 years. May need to revisit this again	No definite arrangement	None	Lab Plus New Zealand
Tokelau	None		None	
Tuvalu	Not routinely but we do Culture and Serovars if there's any cholera outbreak		N.A.	
Vanuatu	Routine culture	None	None	None
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Country	INFLUENZA		LEPTOSPIROSIS	
	Routinely performed or available	Specimen sent to overseas laboratories	Routinely performed or available	Specimen sent to overseas laboratories
American Samoa	None	Dpt of Laboratory Services Hawaii & CDC (requests rarely received)	None	Dpt of Laboratory Services Hawaii (approx. 1-2/month)
Cook Islands	None	- Auckland NZ - ESR (NZ)	None	Auckland NZ
Fed. States of Micro.	N.A.	Hawaii Public Health Laboratory (0/month)	N.A.	Hawaii Public Health Laboratory (1-4/month)
Fiji				
French Polynesia	–	Laboratoire Cerba France	Sérologie IgM Culture (hémoculture) PCR en développement)	MAT : fait à l'Institut Pasteur (~20/an)
Guam	No	- CDC Atlanta - Microbial Dis. Laboratory - Richmond California	No	- CDC Atlanta - Microbial Dis. Laboratory - Richmond California
Kiribati	None	VIDRL, Melb. Australia (every 2-3 months)	Test Kit from SPC	
Marshall Is.	N.A.	- CDC (once a week) - VIDRL Melb. Australia - Aloha Lab Hawaii (once a week)	N.A.	CDC (once a week) VIDRL Melb. Australia Aloha Lab Hawaii (once a week)
Nauru				
New Caledonia				
Niue	N.A.		N.A.	Lab Plus, Auckland Hospital
Northern Mariana Is.				
Palau	None	DLS Hawaii	Leptospira IgM Kit (strip)	
PNG				
Samoa	None	- Lab Plus, Auckland, NZ - VIDRL Melbourne, Aust	–	- Lab Plus, Auckland, NZ
Solomon Is.				
Tonga	None	Lab Plus New Zealand	None	Lab Plus New Zealand
Tokelau	None		None	
Tuvalu	N.A.		N.A.	
Vanuatu	None	None, otherwise any suspects are sent to New Caledonia Pasteur Institute	None	None
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**LABNET: LABORATORY TECHNICAL RE-ASSESSMENT – LEVEL 1 LABORATORIES**

Country	TYPHOID FEVER		MENINGOCOCCAL INFECTION	
	Routinely performed or available	Specimen sent to overseas laboratories	Routinely performed or available	Specimen sent to overseas laboratories
American Samoa	Culture	(Requests rarely received. None sent so far)	Culture	None sent so far
Cook Islands	Culture	Auckland NZ (serotyping)	Culture	ESR, NZ for serotyping
Fed. States of Micro.	N.A.	Hawaii Public Health Laboratory (0-2/month)	TM Culture media, Gram stain, Oxidase	California Microbial Laboratory (0/month)
Fiji				
French Polynesia	Widal-Felix (sérologie) Coproculture Antibiogramme		Culture (LCR) + antibiogramme	
Guam	Yes		Bacterial	
Kiribati	Culture, serotyping and susceptibility testing		Culture, serotyping & susceptibility testing	
Marshall Is.	Culture/Serotyping		Culture	
Nauru				
New Caledonia				
Niue	Culture for Salmonella	Serotyping sent to : Lab Plus, Auckland, NZ Auckland Hospital	N.A.	Lab Plus, Auckland, NZ Auckland Hospital
Northern Mariana Is.				
Palau	None			
PNG				
Samoa	Culture on XLP, SS, SB		G. Strain, Culture, Glucose, Protein, Chloride	
Solomon Is.				
Tonga	Culture (Blood/stool/urine) Sensitivity	–	Microscopy/Culture and sensitivity	–
Tokelau	None		None	TTM Hospital Samoa
Tuvalu	Blood culture and serology test	CWM Hospital Laboratory, Suva Fiji	N.A.	
Vanuatu	Routine cultures, any suspects are sent overseas	Institut Pasteur New Caledonia	Routine cultures	None
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**LABNET: LABORATORY TECHNICAL RE-ASSESSMENT – LEVEL 1 LABORATORIES**

Country	HIV		STI	
	Routinely performed or available	Specimen sent to overseas laboratories	Routinely performed or available	Specimen sent to overseas laboratories
American Samoa	Serological Method (ELISA)	Dpt of Laboratory Services Hawaii (Approx. 1-5/month for WESTERN BLOT)	Chlamydia: Biostar Gonorrhoea: Culture Syphilis: RPR + TPPA	None
Cook Islands	Determine Strips (Abbotts) Ab screening	Auckland Lab NZ	Chlamydia: None Gonorrhoea: Culture Gram Stain Syphilis: Abbotts determine strips	Auckland Lab NZ
Fed. States of Micro.	Abbott Diana HIV	Aloha Laboratories (1-2/year)	Chlamydia: None GC-TM culture Media Syphilis: RPR	Diagnostic Laboratory services (5-10/month)
Fiji				
French Polynesia	- Dépistage ELISA (3 techniques - Confirmation (Western Blot) - Typage lymphocytaire T4 -T8 Charge virale (PCR)		- Culture Gono + ATB - Chlamydia/PCR + sérologie - Syphilis (sérologie TPH, VDRL, FTA)	
Guam	Yes		Yes	
Kiribati	Serodia HIV1, Determine HIV ½ & Immunocomb HIV 1/2	Fairfield Hospital, Melbourne (twice a year)	Culture, serotyping & susceptibility testing for N. gonorrhoea available. Determine HBsAg & syphilis is available	Chlamydia, Syphilis referred to VIDRL (3-4 times a year)
Marshall Is.	- Serodia - Spot test – Donar (Abbotts)	- CDC (once a week) - VIDRL Melb. Australia - Aloha Lab Hawaii (once a week)	- RPR/TPHA/Spot test TPA Donar (Abbotts) - GC Culture - Quick Vue - Chlamydia	
Nauru				
New Caledonia				
Niue	Hexagon Human HIV Test Kit	Confirmation tests sent to : Lab Plus, Auckland, NZ Auckland Hospital	N.A.	Lab Plus, Auckland, NZ
Northern Mariana Is.				
Palau	Determine HIV ½ strip IMX/Vidas		Syphilis TP strips & GEN probe for Chlamydia & gonorrhoea	

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Country	HIV		STI	
	Routinely performed or available	Specimen sent to overseas laboratories	Routinely performed or available	Specimen sent to overseas laboratories
PNG				
Samoa	Serodia Screening Test	- Lab Plus, Auckland, NZ For western blot	Gram Stain Culture Oxidase Test	- Lab Plus, Auckland, NZ
Solomon Is.				
Tonga	Determinant & serodia tests	For confirmation in Australia VIDRL	For Gonorrhoea & Syphilis Chlamydia, not routinely done (no reagents)	–
Tokelau	None		None	TTM Hospital Samoa
Tuvalu	Routinely performed ie determine Strip test	We haven't sent any of our positive results from our screening test for confirmation. We are still not sure where to go about packaging & shipping of specimen to a nearby/closer reference laboratory	Test for Syphilis Culture for gonorrhoea	
Vanuatu	Rapid tests (screening), determine test strips	Any suspects for confirmation are sent overseas to either: New Caledonia Pasteur Institute, or WHO collaborating Center Brisbane, Australia.	Basic & routine techniques for gonorrhoea & Rapid test strips for screening of syphilis which is to determine syphilis test None for Chlamydiae	
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**LABNET: LABORATORY TECHNICAL RE-ASSESSMENT – LEVEL 1 LABORATORIES**

Country	HEPATITIS B		TUBERCULOSIS	
	Routinely performed or available	Specimen sent to overseas laboratories	Routinely performed or available	Specimen sent to overseas laboratories
American Samoa	ELISA	None	Culture	California Dpt of Health Laboratory (None sent so far due to airline restrictions)
Cook Islands	Abbotts determine strips	Auckland Lab NZ	ZN Stain, culture	Auckland Lab. (NZ) for sensitivity and confirmation.
Fed. States of Micro.	Abbott Diana HBsAg	Aloha Laboratories (2-4/month)	ZN Stain	California Microbial Disease Laboratory (5-10/month)
Fiji				
French Polynesia	Sérologie AgHBs, Ac & HBs, Ac & HBc, Ac & HBc IgM, AgHBE, Ac & HBE	Quantification DNA virale (CERBA)	Isolement, Culture, Identification et antibiogramme (technique des proportions)	
Guam	Yes		Yes, Isolation, identification & sensitivity	
Kiribati	Serodia HBsAg and determine HBsAg		Microscopy – ZN staining	New Zealand for culture & susceptibility testing (limited space within the existing microbiology unit, otherwise we can perform the culture + susceptibility testing)
Marshall Is.	- Serodia(Ag/Ab) - Spot test Donar (Abbotts)		AFB Smear	CDC TB Laboratory California
Nauru				
New Caledonia				
Niue	Hexagon Test Strips Rapid assay		Ziehl Neelsen staining for smears	
Northern Mariana Is.				
Palau	Determine HbsAg		Acid Fast Bacilli staining	DLS Hawaii
PNG				
Samoa	Screening Test IND cassetts & Hepacol test kit (not used anymore as too many false positive)	- Lab Plus, Auckland, NZ	- ZN Stain & culture - Niacine test	- Wellington Hospital NZ
Solomon Is.				
Tonga	HBsAg Test	–	AFB/Microscopy Culture has been deferred until a new safety cabinet is installed	We need to send confirmed positives for sensitivity testing in Auckland, NZ but funding problem has hampered this.
Tokelau	None	TTM Hospital, Samoa	None a	TTM Hospital Samoa
Tuvalu	Available and tested routinely		Not available as our safety cabinet is not working at this time	
Vanuatu	Rapid test Strips for screening which is to determine Hep. B test	None	Acid-Fast Bacilli microscopy using staining technique	WHO collaboration Center, Brisbane Australia for quality control programme
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**LABNET: LABORATORY TECHNICAL RE-ASSESSMENT – LEVEL 1 LABORATORIES**

Country	OTHER INFECTIOUS DISEASES			
	Other Viral hepatitis (A, C, E etc)	Filariasis	Malaria	Other (indicate)
American Samoa	No	Yes	Yes	
Cook Islands	Yes: Hep. C virus	Yes	Yes	
Fed. States of Micro.	No	No	No	
Fiji				
French Polynesia	Yes (A, C Sérologie)	Yes (antigène)	Yes (sérologie + frottis)	EBV (Epstein Balm) RAA EBV (Epstein Barr) (streptocoque A, culture + sérologie) Pneumocoque
Guam	No	Yes	No	
Kiribati	Hep C (but then withdrawn from pre-transfusion testing due to cost)	Yes	Yes	Cryptosporidium
Marshall Is.	No	No		
Nauru				
New Caledonia				
Niue	No	Yes	No	
Northern Mariana Is.				
Palau	Yes HCV by Serodia	Yes	Yes	
PNG				
Samoa	No	Yes	No	
Solomon Is.	No	Yes	No	
Tonga	Virus C (No A & E)	Yes	Yes	
Tokelau	No	No	No	
Tuvalu	No	Yes	No	
Vanuatu	No	Yes	Yes	
Wallis & Futuna				

Country	SARS			
	Overseas laboratories you would send SARS –associated specimens			
American Samoa	CDC – No cases, no samples sent			
Cook Islands	Auckland Hospital Laboratory, ESR			
Fed. States of Micro.	Hawaii Public Health Laboratory			
Fiji				
French Polynesia	Institut Pasteur, Paris, France			
Guam	CDC, Atlanta Georgia, USA			
Kiribati	VIDRL (no samples sent)			
Marshall Is.	CDC????			
Nauru				
New Caledonia				
Niue	Lab Plus, Auckland Hospital, NZ			
Northern Mariana Is.				
Palau				
PNG				
Samoa	Brisbane Royal Hospital, Brisbane, Queensland, Australia			
Solomon Is.				
Tonga	Probably one of the WHO Collaboration Laboratories in Australia			
Tokelau	New Zealand laboratory recommended by WHO & SPC (PPHSN)			
Tuvalu	May send samples to a reference laboratory in Australia			
Vanuatu	WHO Collaboration Reference Laboratory Center in Australia, at the moment no samples have been sent			
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### III. ADDITIONAL COMMENTS:

#### **French Polynesia**

Diagnostic leper: Examen direct, suivi patient sous traitement.

#### **Guam:**

Perform:

- Hansen's (Leprosy)
- Blood typing
- E. Coli HI51

#### **Kiribati:**

Due to urgent need of laboratory confirmed results especially in times of outbreak, it would be wise if PPHSN could assist us in upgrading our laboratory to be able to at least carry out some of the confirmatory tests for the major communicable diseases. Perhaps, it is worth noting that the turn around time especially during an epidemic is very crucial in order to establish appropriate and effective patient management. The turn around time for lab confirmed results usually take 1-2 months.

To upgrade our laboratory to level 2 to cater for the needs of L1 laboratories such as Tuvalu, Nauru and other neighbouring countries. We have the human resource but all we are lacking is equipments. We have four Bachelor of Applied Science (medical lab Science) majoring in the following fields: Microbiology, Haematology, Biochemistry, Cytopathology and Histopathology.

#### **Marshall Islands**

Need for urgent basic laboratory training to be able to ensure our analysis ..... if some acceptable standards if not accreditation.

It should be enforced other be a minimum lab only qualification

#### **Vanuatu**

Would be very happy of assistance be provided as to start of with for the identification of influenza and salmonella species in our laboratory

#### **Samoa**

Need to identify all the WHO Collaborative Centre to where we can sent samples for the various virological/bacteriology outbreaks.