Laboratory Preparedness and Response Branch
Biological Response Section

Specimen Requirements for *Angiostrongylus cantonensis* Detection by Real-Time Polymerase Chain Reaction (PCR) in Clinical Specimens.

Methodology:	*Angiostrongylus cantonensis* (Angio) Real-Time PCR
Performed:	*Angiostrongylus cantonensis* Real-Time PCR is performed on specimens approved by the Disease Investigation Branch (DIB) of the Disease Outbreak and Control Division (DOCD), Department of Health.
Criteria for testing:	Clinical signs and symptoms compatible with *Angiostrongylus cantonensis* infection and/or specimens meeting the case definition set by the DIB.
Turn-Around-Time:	Results are reported 2-3 business days after approval and receipt of specimen(s).
Specimen type required:	For Human samples: CSF A minimum of 200uL sample is required, 500uL is the ideal sample quantity. For Non-Human Clinical Samples: please contact the Laboratory Preparedness and Response Branch.
Specimen storage/transport:	Newly collected CSF stored at 4°C should be sent on cold packs (i.e. 4°C) within 24 hours. Ship on dry ice if CSF has been frozen at -20°C or lower. Follow packing and shipping instructions of the U.S. Department of Transportation (U.S. DOT), and the International Air Transport Association (IATA) for Biological Substance, Category B.
Specimen submission:	Specimens are submitted from requesting laboratories with 81.3 submission form(s). Test is subject to CLIA regulation which require two patient identifiers on the specimen container and the test requisition(s).
Criteria for rejection:	**Specimen without prior approval from the State Epidemiologist or DIB Epidemiologist Investigator.** 1. Specimen leaked in transit. Specimen **will not be processed** if the safety of the laboratory worker is

compromised. Testing of leaking specimens requires the Laboratory Director's approval.

2. Specimen is received at temperature not appropriate for specimen type. Testing of specimens not received at the required temperature is subject to the Laboratory Director's approval.
3. Specimen quantity is insufficient to perform the test.
4. Unlabeled or incomplete specimen labeling and documentation. Submitter(s) will be notified to provide correct information and corrected State Laboratory Division (SLD) Form 81.3 in person or submit a written documentation by fax or e-mail.
5. Incomplete requisition form (e.g., only one patient identifier, travel history if appropriate and/or relevant, etc.). Submitter must complete requisition form.
6. Specimen label does not match the requisition. Submitters must correct the discrepancy.

Stability:

If specimen cannot be transported to the SLD within 24 hours after collection, CSF specimens should be frozen at -20°C or lower. Frozen samples should be shipped in dry ice.

Requisition Form:

Each specimen submitted must have a completed SLD Form 81.3. Submitter is responsible for completing SLD Form 81.3 including but not limited to the following information: at least two patient unique identifiers, specimen site/specimen type, date of onset, date of collection, date shipped/sent to the SLD, test(s) requested, name and address of submitter and other pertinent information.

Requisition forms shall be placed in a separate bag and shall not be packed with the specimen(s).

Normal Value:

No *Angiostrongylus cantonensis* nucleic acid detected.

Result Notification:

Laboratory reports are electronically relayed to the submitters (DIB and Submitting Laboratories) via the LIMS portal. An automatic notification will be relayed when a report is available on the LIMS portal. Laboratories who do not receive automatic notification will be notified by e-mail on the availability of results on the LIMS portal.

Submitters who do not have access to electronic reports will be notified via fax or by encrypted e-mail.

Test performed at:

Biological Response Section (BRS)
Laboratory Preparedness and Response Branch (LPRB)
State Laboratories Division

Department of Health
2725 Waimano Home Road
Pearl City, Hawaii 96782

Contact: For any testing related questions, please call (808) 453-5984

Reviewed By:

Remedios B. Gose

APR 26 2024

Remedios B. Gose, MSPH, RM (NRCM)
Laboratory Preparedness and Response Branch Chief

Date

Approved By:

Edward P. Desmond

APR 26 2024

Edward Desmond, Ph.D.
Administrator, State Laboratories Division

Date