

# Liat Training Guide

TNG-POC-008

Issued 29 November 2023 Approved by: R.Nallas

## This is a guide that can be used to assist the Trainer when training staff for the Liat

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Pre- Analytical                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Health and Safety                       | Reinforce the need to use PPE and follow the OH&S procedures relating to biological sample handling. Due to the high sensitivity of the assays run on the cobas® Liat® analyser, contamination of the work area and PPE with previous positive samples may cause false positive results. Handle samples according to standard laboratory practices and keep work surfaces clean.                                                                                                                                                      |
| Identify the components of the Liat     | Show the trainee and explain the function of the different parts of the Liat system. This will include – the power button, touch screen, navigation buttons, scanner and assay tube loading compartment.                                                                                                                                                                                                                                                                                                                              |
| Sample Requirements                     | The correct type of specimen is a swab. Collect nasopharyngeal and nasal specimen using a sterile flocked swab with a synthetic tip (e.g., Dacron, nylon, or rayon). DO NOT use cotton or calcium alginate swabs, or swabs with wood shafts.                                                                                                                                                                                                                                                                                          |
| Assay Tube Storage                      | Explain the assay tubes for the Liat are stored in the fridge and can be used immediately after being taken out of the fridge. Assay tubes are stable for four hours at room temperature. Point out there is an expiry date on each assay tube and if stored in the fridge they are OK to use up until this expiry date.                                                                                                                                                                                                              |
| Analytical                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Patient Identification                  | Patient must be positively identified when sample is collected and labelled. Emphasise the correct Patient details have to be entered into Liat and the <b>potential consequences</b> if wrong Patient ID is entered i.e. the results going into the wrong patients records.<br>Show the <b>POCT Patient Reconciliation Form</b> and reinforce that this needs to be filled in and sent <b>every time</b> a Patient ID error is made. Make sure the trainee knows where to locate these forms and show an example of a completed form |
| Loading the assay tube with sample      | Describe and demonstrate the correct way to load the liquid from the swab using the transfer pipette that is included in the assay tube package. Make sure the trainee is able to squeeze and release the bulb of the pipette correctly. Emphasise the small volume required for the test and that multiple sampling is not required. Overfilling and bubbles may cause invalid results.                                                                                                                                              |
| Running a patient sample                | Demonstrate the steps required to run a patient sample and then observe the trainee following the process                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Operator ID and Operator Responsibility | Explain that all testing done on the Liat is traceable, each operator is accountable for everything done under their Login. The Operator ID is also used to assess competency for each Operator. Tell the trainee to think of their ID like a Signature and <b>DO NOT SHARE</b>                                                                                                                                                                                                                                                       |
| Post Analytical                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Notification of Results                 | Make sure the operator is aware that it is their responsibility to notify clinician of test results.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Unexpected results                      | Explain that if results are unexpected and do not 'fit' with the clinical picture that a new collection and repeat testing is advised.                                                                                                                                                                                                                                                                                                                                                                                                |

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| Error Codes & Troubleshooting                                | Explain that errors will occur sometimes, the error may indicate an incorrectly filled assay tube or a faulty assay tube. Advise the trainee to repeat the test, but, if the same error reoccurs to ask Superuser or Supervising Lab for advice.<br><br>Make sure trainee can locate contact details for Supervising Lab and is aware of who are Superusers on-site. |
| Maintenance                                                  |                                                                                                                                                                                                                                                                                                                                                                      |
| Cleaning                                                     | Explain Liat can be cleaned with a CLINELL or similar wipe if required. No alcohol is to be used on the instrument screen as this may cause damage to the instrument.                                                                                                                                                                                                |
| Superuser – Only Austin Pathology Staff can train Superusers |                                                                                                                                                                                                                                                                                                                                                                      |
| QC Requirements                                              | Explain the is required for each new lot of cartridge kits, use is disabled until valid QC is present.<br><br>Direct the trainee to SOP-MOLB-048 and go through/observe the sample preparation for each type of QC.                                                                                                                                                  |
| QAP                                                          | Explain the QAP procedure of running the samples as a patient and make sure the trainee can locate the QAP schedule.<br><br>Detail the instructions for preparing and handling the QAP samples and the importance of following the instructions.                                                                                                                     |
| Consumables & Documentation                                  | Explain the requirements to send any documentation E.g. Temperature monitoring to Supervising Lab each month.                                                                                                                                                                                                                                                        |
| Maintenance                                                  | Explain and demonstrate the use of the instrument cleaning tool.                                                                                                                                                                                                                                                                                                     |
| Troubleshooting                                              | Overview of assay failure codes, instrument repairs and creating problem reports.                                                                                                                                                                                                                                                                                    |
| Software                                                     | Perform training on the Infinity POC program including device management, result review, QC monitoring and operator management functions.                                                                                                                                                                                                                            |

**End Of Document**