

FACILITATOR GUIDE

Training on Proficiency Testing Scheme (GeneXpert DTS)

Module 6: Isolate selection and freezer stock maintenance

Acknowledgements

This Module was prepared by SRL-Uganda Training team.

The inputs provided by the representatives of SRL-Uganda are acknowledged.

Part 5.0: Isolate selection and freezer stock maintenance



OBJECTIVE: By the end of this module participants should be able to:

- Understand the MTB strains recommended for use in the preparation of genexpert PT panels
- Know how to create a repository of known / certified MTB strains
- Know the equipment essential in preparation of genexpert PT panels

MATERIALS:

1. Handouts,
2. Slides
3. Computer
4. Over head projector
5. Flip chart
6. Markers and pens
7. Note books

TIMELINE: 45 Minutes

METHODOLOGY:

1. Lecture
2. Discussion

ADVANCE PREPARATION:

1. Printing notes,
2. Familiarize oneself with the slides

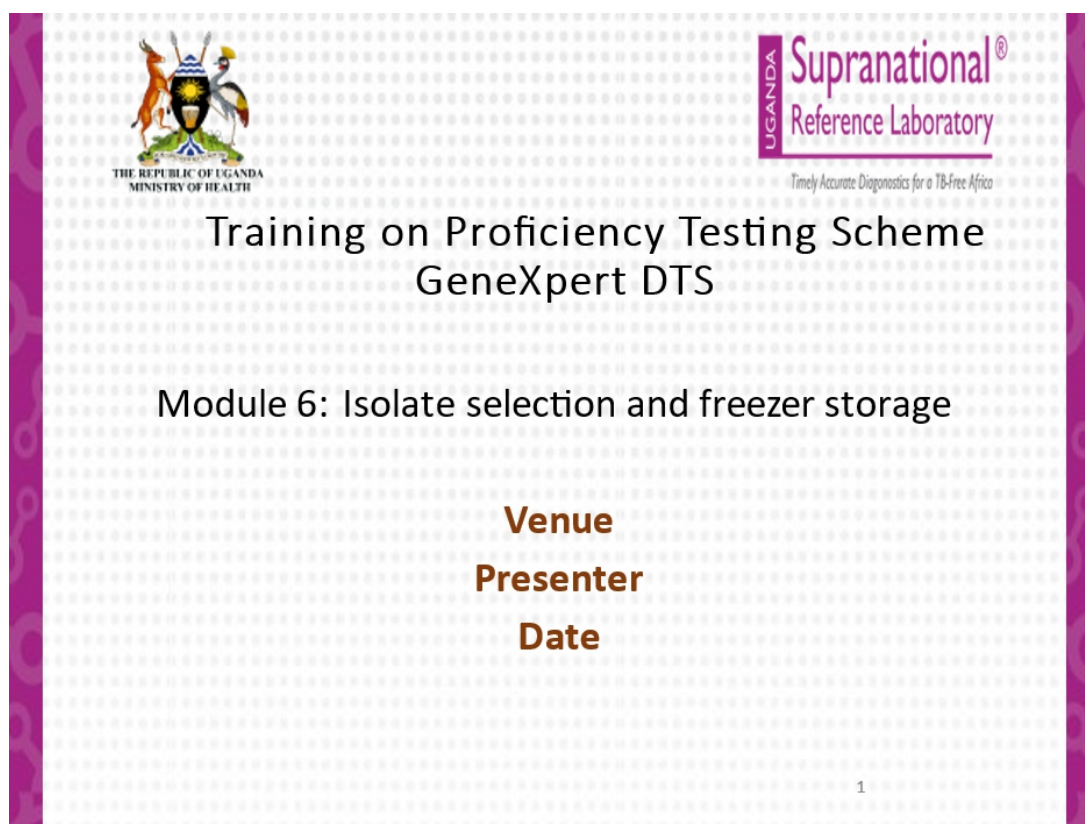
FACILITATORS STEP-BY STEP INSTRUCTIONS:

1. Welcome and Introduction
2. Present module overview
3. Ask question about module expectations
4. Distribute handouts
5. Start the presentation
6. Recap presentation using discussion questions
7. Ask if there is any question.

FACILITATORS NOTES

1. Make sure you go slow with the presentation as follows;
 - Isolate selection
 - Characteristics of pure isolates
 - Panel composition
 - Creation of a repository
2. Encourage some of the participants to answer some of the questions that may arise during the presentation as this may create active participation from most of the class.
3. Make sure the materials required for the practical session are readily available.

SLIDE OF POWERPOINT PRESENTATION



SITUATION ANALYSIS/ EXERCISES

- The laboratory is planning to start a proficiency testing scheme, identify the isolates to use. Confirm if they are readily available and if not, how can they be obtained. Describe a plan on how to multiply these isolates to support and sustain the PT scheme for the next 5 years. (Group activity)

The exercise will approximately take 15 minutes. It should be fully discussed with the trainees after assessment.

ASSESSMENT REVIEW

1. Why is necessary to include MTB, NTMs and Negative isolates in a genexpert PT panel?
2. Why do you need to inoculate several isolates on media?

REFERENCES

ISO 13528:2005, Statistical methods for use in proficiency testing by interlaboratory comparisons

ISO Guide 34, General requirements for the competence of reference material producers

ISO Guide 35, Reference materials – General and statistical principles for certification

Guide 34, ISO Guide 35 and ISO 13528 (homogeneity and stability)

ISO/IEC Guide 98-3, Uncertainty of measurement – Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)

ISO/IEC 17011:2004, Conformity assessment – General requirements for accreditation bodies accrediting conformity assessment bodies

ISO/IEC 17025, General requirements for the competence of testing and calibration laboratories