

## Test Sample Guidelines

EQAB: Gram stain (EQAB 8010), Acid fast bacilli stain (EQAB 8020) และ  
Bacteria identification and susceptibility testing (EQAB 8150)

Distribution 2/2025

### 1. Verification of Documents and Samples

1.1 You will receive the following:

1.1.1 One set of "Sample Testing Instructions."

1.1.2 Testing samples according to the registered project:

- **EQAB 8010:** Two bacterial smears on glass slides for Gram staining:
  - EQAB: GRAM 25-2-1 and EQAB: GRAM 25-2-2
- **EQAB 8020:** Two sputum smears on glass slides for Acid-Fast Bacilli (AFB) staining:
  - EQAB: AFB 25-2-1 and EQAB: AFB 25-2-2
- **EQAB 8150:** Two pure bacterial cultures in semi-solid media:
  - EQAB: IDEN 25-2-1: Bacterial microorganism is isolated from stool
  - EQAB: IDEN 25-2-2: Bacterial microorganism is isolated from Urine

1.2 Please verify the condition, quantity, and accuracy of the samples provided.

1.3 If any sample is missing or damaged to the extent that it cannot be analyzed, and you require a replacement, you must:

1.3.1 Contact Peerada Phuechpisut at 061-1747884 within one week before the deadline for result submission. If this deadline is missed, the project will not provide new samples.

1.3.2 Send an email to [eqab.mtmu@gmail.com](mailto:eqab.mtmu@gmail.com) with the subject "Damaged Package," providing the Participant Number, laboratory name, hospital name, and details of the damaged sample, along with photos of the damaged sample.

### 2. Sample Analysis According to the Registered Project

2.1 Perform the analysis using the routine procedures of your laboratory:

- **EQAB 8010:** Gram staining.
- **EQAB 8020:** Acid-fast bacilli (AFB) staining.
- **EQAB 8150:** Bacterial identification and antimicrobial susceptibility testing.

2.2 If the analysis has not yet been performed, store the samples at room temperature, away from direct sunlight and heat.

2.3 Handle the samples in accordance with biosafety protocols and dispose of them as biohazardous waste.

### 3. Reporting of Test Results

3.1 Report the results based on the registered project:

- **EQAB 8010:** Report the Gram stain results.
  - Report the Gram reaction, shape, and arrangement of the unknown organism within the green circle only.
  - If more than one Gram reaction is observed, report them separately as Answer 1 and Answer 2.
  - If both Gram-positive and Gram-negative reactions are observed, report Gram-positive as Answer 1 and Gram-negative as Answer 2.
  - If the same Gram reaction is found but with two different shapes, such as cocci and bacilli, report cocci as Answer 1 and bacilli as Answer 2.
- **EQAB 8020:** Report AFB results according to WHO guidelines.
- **EQAB 8150:**
  - For bacterial identification:
    - Report the Genus and Species correctly and completely.
    - If serogrouping has been performed, report the Serotype as well.
    - If antibiotic-resistant bacteria have been detected, report those strains that are critical, such as Carbapenem-Resistant Enterobacterales (CRE), Vancomycin-Resistant Enterococci (VRE), Methicillin-Resistant Staphylococcus aureus (MRSA), etc.
  - For antimicrobial susceptibility testing:
    - Report the results based on your routine laboratory procedures.
    - If using Disk Diffusion, specify the inhibition zone size in millimeters (mm).
    - If using MIC testing, report the MIC values of the antimicrobial agents tested.
    - Specify the criteria used in interpreting susceptibility results, indicating the CLSI edition and year.

3.2 Report the test results online at <https://eqamt.mahidol.ac.th/> according to the registered project.

- Log in using the registered email and password.
- Click "Submit Test Results" → Select the year 2025 → Select the project (GRAM, AFB, or IDEN)  
→ Click "TRIAL" → Choose Distribution 2/2025 → Click "Submit Results" and complete the online reporting form.

A guide for online result submission can be found under "Document Download" at

<https://eqamt.mahidol.ac.th/> → EQAB Bacteriology → Document Download.

**4. Deadline for Result Submission: July 4, 2025**

**5. Prevention of Dishonest Practices**

A unique 8-digit Participant ID is assigned to each participant after registration. The project will strictly adhere to this ID for system access. If dishonesty is detected in result reporting, the participant will be immediately disqualified from receiving a certificate, as outlined in the member's manual and sample testing instructions.

**6. For Further Inquiries or Issues**

Please contact Miss. Peerada Phuechpisut at 061-1747884 or email [eqab.mtmu@gmail.com](mailto:eqab.mtmu@gmail.com).