Qualitative Detection of Urinary Bilirubin

Experiment 14 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To perform or observe the assigned qualitative test and interpret its controls.

Principle

Validated urinary bilirubin tests use a product-specific colour reaction with detectable conjugated bilirubin.

Expected Teaching Response

Read the supplied method colour chart and report positive/negative or the stated category.

Requirements

- Simulated urine, bilirubin controls and the prescribed kit
- Clean labelled tubes or product-specific test equipment; PPE

Procedure

1. Label

Prepare separate test, positive control and reagent blank/negative control entries.

2. Perform

Protect the material as instructed and perform a timed test with controls.

3. Read

Observe at the method-defined time and compare with controls.

4. Record

Write the actual colour, precipitate or category, then the supported inference.

5. Interpret

Light exposure and interfering substances may alter the response; interpret with the clinical/laboratory context.

Observations and Record

Material	Observed response	Inference
Test material	_____	_____
Positive control	_____	_____
Blank / negative control	_____	_____

Result

The observed response was _____. Controls were _____. The result _____ supports _____ under the stated method.

Precautions

- Use simulated biological material or authorised supervised demonstrations.
- Follow reagent, solvent, heating and waste controls; corrosive or metal reagents are instructor-managed.
- Do not copy an expected response into the actual observation field.

Viva Questions and Answers

1. What response is expected in the teaching positive?

Read the supplied method colour chart and report positive/negative or the stated category.

2. Why use controls?

They show whether the reagents and conditions produced a valid comparison.

3. What limits the conclusion?

Light exposure and interfering substances may alter the response; interpret with the clinical/laboratory context.

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