

HALAL Test PORK

Rapid immunochromatographic test for qualitative determination of porcine meat the target antigen is heat resistant muscular glycoprotein

TEST PRINCIPLE

Consumption and handling of pork meat is strictly prohibited by some religious confessions. Pork meat may also cause allergy and food intolerance.

HALAL Test PORK is based on principle of immunochromatographic rapid test (lateral flow) and may be used for qualitative determination of porcine meat antigen in raw and processed minced meat. In immunochromatographic method, the target antigen (porcine heat resistant muscular glycoprotein) bound by highly specific antibodies attached to the test line and colored microparticles. This two-site binding results in formation of immune complex visible as the colored line.

The kit is intended for users concerned about detecting unlabeled pork adulterated into other meats: certification bodies, contract laboratories, food manufacturers, and regulatory agencies.

APPLICABILITY: The test is designed to detect porcine specific antigen in minced fresh or frozen lean meat and processed meat. It is not applicable for cured meat products processed for > 3 months (e.g., jamon, prosciutto).

The matrix study suggests that a 100% probability of detection can be obtained for 0.5% (g/g) pork in beef (please refer to the POD charts listed on www.asianmedic.com for greater detail on all validated products). This corresponds approximately to determination of 50 milligrams of target antigen per kilogram of the solid material without water.

HALAL Test PORK shows negative result in minced meat of following species: cow (beef), sheep, goat, antelope, horse, moose, reindeer and other deer, chicken, turkey, goose, duck, rabbit, kangaroo. The test is also negative in human blood and muscle tissue.

KIT CONTENTS

- 20 test strips individually packaged into sealed pouches
- 20 specimen collection tubes;
- Instructions for use.

SAMPLE PREPARATION:

Weigh 0.5 g test portion into a disposable specimen collection tube and record weight to nearest 0.01 g.

Note: use only disposable materials and change with each use.

Add 2.5 mL water, cap the tube and shake vigorously for 15-30 seconds.

Allow to settle. If necessary, test solution can be stored at +2...+8 °C for up to 24 hours.

TEST PROCEDURE

1. Bring test strips to room temperature before opening the pouches.
2. If the test solution was refrigerated, bring to room temperature.
3. Open pouch with a sharp instrument, taking care not to damage the test strip.
4. Dip the test strip into the test solution, observing the right direction and depth (not deeper than the colored line marked by arrow signs). Allow the strip to remain in the solution for 5 – 10 seconds.
5. Remove the test strip and place onto a CLEAN horizontal surface; do not touch or move the test strip for 5 to 10 minutes.
6. Read the test result.





INTERPRETATION OF THE RESULTS

The test is considered "positive" if two colored lines appear in the test zone. Record the result for a "positive" as a value of 1.



Test is considered "negative" if only one colored line is clearly visible.

Record the result for a "negative" as a value of 0.



If no colored line is visible, the test is invalid. If an invalid result is obtained, repeat the test with another test strip, checking for correct

handling of the test sample, that the method protocol was followed, that the test strip was properly storage and that it had not passed the expiration date.

PRECAUTIONS

- Do not use the kit when its pouch is torn, or test strip is broken or damaged. Take care to not damage the test strip when opening the pouch.
- Use the test within 10 minutes after opening the pouch because the test kit is very sensitive to moisture.
- **DO NOT TOUCH** the reaction membrane.
- All the components of the test kit are disposable; do not reuse. Dispose used components according to regulatory and /or organizational requirements.
- Wear appropriate personal protective equipment (PPE) while handling specimens and test kit components.

STORAGE

The test strips (dipsticks) should be stored at +18...+25 °C.

EXPIRATION

The kits is recommended for use within 18 months.

Do not use the test strips beyond the expiration date.

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