

FOB Rapid Test Dipstick (Feces) Package Insert

REF TFO-601 English

A rapid one step test for the qualitative detection of Human Occult Blood in feces

For professional in vitro diagnostic use only.

INTENDED USE

The FOB Rapid Test Dipstick (Feces) is a rapid chromatographic immunoassay for the qualitative of Human Occult Blood in feces

SUMMARY

Many diseases can cause hidden blood in the feces. This is also known as Fecal Occult Blood (FOB), Human Occult Blood, or Human Hemoglobin. In the early stages, gastrointestinal problems such as colon cancer, ulcers, polyps, colitis, diverticulitis, and fissures may not show any visible symptoms, only occult blood. Traditional gualac-based methods lack sensitivity and specificity, and also have diet restrictions prior to testing.

The FOB Rapid Test Dipstick (Feces) is a rapid test to qualitatively detect low levels of Fecal Occult Blood. The test uses a double antibody sandwich assay to selectively detect Fecal Occult Blood at 50ng/ml or higher, or 6µg/g feces. In addition, unlike guaiac assays, the accuracy of the test is not affected by the diet of the patients.

PRINCIPLE

The FOB Rapid Test Dipstick (Feces) is a qualitative, lateral flow immunoassay for the detection of Human Occult Blood in feces. The membrane is precoated with anti-hemoglobin antibody on the test line region of the test. During testing, the specimen reacts with the particle coated with anti-hemoglobin antibody. The mixture migrates upward on the membrane chromatographically by capillary action to react with anti-hemoglobin antibody on the membrane and generate a colored line. The presence of this colored line in the test line region indicates a positive result, while its absence indicates a negative result. To serve as a procedural control, a colored line will always appear in the control line region, indicating that the proper volume of specimen has been added and membrane wicking has occurred.

REAGENTS

The test contains anti-hemoglobin antibody particles and anti-hemoglobin antibody coated on the

PRECAUTIONS

- For professional in vitro diagnostic use only. Do not use after expiration date. The test should remain in the sealed pouch until use.
- Do not eat, drink or smoke in the area where the specimens or kits are handled.
- Handle all specimens as if they contain infectious agents. Observe established precautions against microbiological hazards throughout all procedures and follow the standard procedures for proper disposal of specimens
- Wear protective clothing such as laboratory coats, disposable gloves and eye protection when specimens are assayed.
- The used test should be discarded according to local regulations.
- Humidity and temperature can adversely affect results

STORAGE AND STABILITY

The kit can be stored at room temperature or refrigerated (2-30°C). The test dipstick is stable through the expiration date printed on the sealed pouch. The test dipstick must remain in the sealed pouch until use. DO NOT FREEZE. Do not use beyond the expiration date.

SPECIMEN COLLECTION AND PREPARATION

- Specimens should not be collected during or within three days of a menstrual period, or if the patient suffers from bleeding hemorrhoids or blood in the urine.
- Alcohol, aspirin and other medications taken in excess may cause gastrointestinal irritation resulting in occult bleeding. Such substances should be discontinued at least 48 hours prior to testing. No dietary restrictions are necessary before using the FOB Rapid Test Dipstick

MATERIALS

- Test dipsticks
- · Package insert
- **Materials Provided**
 - Specimen collection tubes with extraction buffer
 Reaction Tubes
- Materials Required But Not Provided Timer

Specimen collection containers

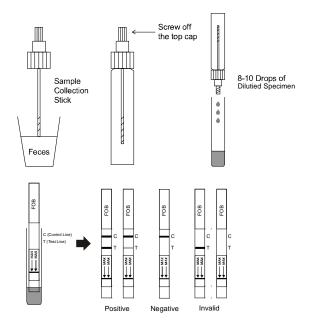
DIRECTIONS FOR USE

Allow the test, specimen, buffer and/or controls to reach room temperature (15-30°C) prior to

To collect fecal specimens:

Collect sufficient quantity of feces (1-2 mL or 1-2 g) in a clean, dry specimen collection container to obtain maximum antigens (if present). Best results will be obtained if the assay is performed within 6 hours after collection. Specimen collected may be stored for 3 days at 2-8 °C if not tested within 6 hours. For long term storage, specimens should be kept below -20°C.

- 2. To process fecal specimens:
 - For Solid Specimens:
 - Unscrew the cap of the specimen collection tube, then randomly stab the specimen collection applicator into the fecal specimen in at least 3 different sites to colle approximately 50 mg of feces (equivalent to 1/4 of a pea). Do not scoop the fecal specimen. For Liquid Specimens:
 - Hold the dropper vertically, aspirate fecal specimens, and then transfer 2 drops (approximately 80 μL) into the specimen collection tube containing the extraction buffer
- 3. Bring the pouch to room temperature before opening it. Remove the test dipstick from the foil pouch and use it as soon as possible. Best results will be obtained if the test is performed immediately after opening the foil pouch.
- 4. Fix the reaction tube, hold the specimen collection tube upright and break off the tip of the specimer collection tube. Invert the specimen collection tube and transfer 8-10 full drops of the extracted specimen (approx. 500µL) to the reaction tube, then with arrows pointing toward the exaction buffer, immerse the dipstick and start the timer. Do not immerse the dipstick past the maximum line. See
- 5. Read results at 5 minutes. Do not read results after 10 minutes



INTERPRETATION OF RESULTS

(Please refer to the illustration above)

POSITIVE:* Two lines appear. One colored line should be in the control line region (C) and another apparent colored line should be in the test line region (T).

*NOTE: The intensity of the color in the test line region (T) will vary depending on the concentration of Fecal Occult Blood present in the specimen. Therefore, any shade of color in the test line region (T) should be considered positive

NEGATIVE: One colored line appears in the control line region (C). No line appears in the test line

INVALID: Control line fails to appear. Insufficient specimen volume or incorrect procedural techniques are the most likely reasons for control line failure. Review the procedure and repeat the test with a new persists, discontinue using the test kit immediately and contact your local distributor.

QUALITY CONTROL

Internal procedural controls are included in the test. A colored line appearing in the control region (C) is an internal valid procedural control. It confirms sufficient specimen volume and correct procedural

Control standards are not supplied with this kit; however, it is recommended that positive and negative controls be tested as a good laboratory practice to confirm the test procedure and to verify proper test

LIMITATIONS

- 1. The FOB Rapid Test Dipstick (Feces) is for in vitro diagnostic use only.
- 2. The FOB Rapid Test Dipstick (Feces) will only indicate the presence of Fecal Occult Blood, the presence of blood in feces does not necessarily indicate colorectal bleeding.
- As with all diagnostic tests, all results must be considered with other clinical information available to the physician.
- ailable tests are required if questionable results are obtained.

EXPECTED VALUES

The FOB Rapid Test Dipstick (Feces) has been compared with another leading commercial rapid test correlation between this two system is 98.6%

PERFORMANCE CHARACTERISTICS

Accuracy

The FOB Rapid Test Dipstick (Feces) has been compared with another leading commercial rapid test using clinical specimens.

Method		Other Rapid Test		Total
FOB Rapid Test Dipstick (Feces)	Results	Positive	Negative	Result
	Positive	189	4	193
	Negative	10	802	812
Total Result		199	806	1005

Relative sensitivity: 95.0% (95%CI*: 91.0%-97.6%); Relative specificity: 99.5% (95%CI*: 98.7%-99.9%); Accuracy: 98.6% (95%CI*: 97.4%-99.0%).

*Confidence Intervals

Sensitivity The FOB Rapid Test Dipstick (Feces) can detect levels of Fecal Occult Blood as low as 50 ng/mL or 6 µg/g feces

Precision

Intra-Assay
Within-run precision has been determined by using 15 replicates of three specimens: 50ng/ml, 100ng/ml and 10μg/ml positive specimens. The specimens were correctly identified >99% of the time.

Inter-Assav

Between-run precision has been determined by 15 independent assays on the same three specimens: 50ng/ml, 100ng/ml and 10ug/ml positive specimens. Three different lots of the FOB Rapid Test Dipstick (Feces) have been tested using these specimens. The specimens were correctly identified >99% of the

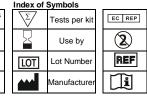
Cross-reactivity

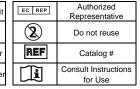
The FOB Rapid Test Dipstick (Feces) is specific to human hemoglobin. Specimens containing the following substances were diluted in the extraction buffer to a concentration of 1.0 mg/ml, and teste both positive and negative controls with no effect on test results: Bovine hemoglobin, Chicken hemoglobin, Pork hemoglobin, Goat hemoglobin, Horse hemoglobin, Rabbit hemoglobin and Turkey

BIBLIOGRAPHY

- 1. Simon JB. Occult Blood Screening for Colorectal Carcinoma: A Critical Review, Gastroenterology, 1985; 88: 820.
- 2. Blebea J, Mcpherson RA. False-Positive Guaiac Testing With Iodine, Arch Pathol Lab Med. 1985;109:437-40

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