



## FOB detection kit

Colorectal cancer is the second leading cause of illness and death in Western world. The screening with faecal occult blood tests is based on the concept that important target colonic neoplasm, such as early-stage cancer and large adenomatous polyps, will bleed, for which may be detected by an occult blood test. Colorectal cancer is also associated with local acute inflammatory reaction being visualized, in some cases, by white cell neutrophil scanning.

Haemoglobin is the iron-containing oxygen-transport protein in the red blood cells of all vertebrates that may be leaked into gastrointestinal tract and then discharged with the feces in gastrointestinal bleeding diseases.

When gastrointestinal blood is lost, the stool will contain a combination of intact or nearly intact haemoglobin, intact heme and heme-derived

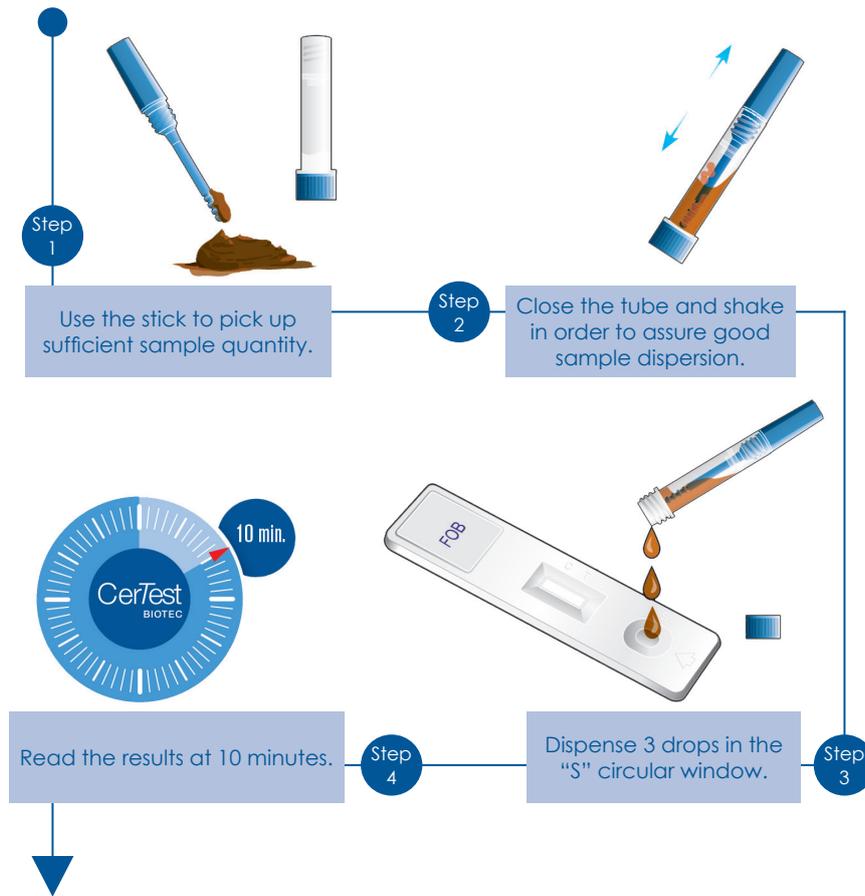
porphyrins in amounts that depend on the site and amount of bleeding and the transit time through the gut. Immunochemical tests detect intact or nearly intact human haemoglobin, being a very specific technique for detecting loss of blood from the lower intestine, because blood from lower sites is less degraded during transit.

**CerTest FOB one step card test** is a coloured chromatographic immunoassay (cut-off qualitative test) for the qualitative determination of human haemoglobin (hHb) in stool samples.

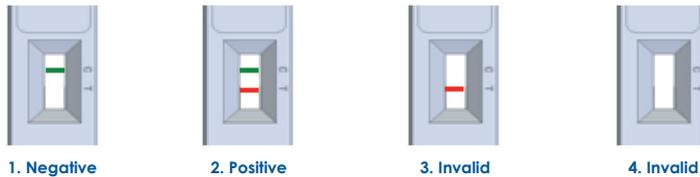
**CerTest FOB card test** offers a simple, a highly sensitive and non-invasive screening assay to make a presumptive diagnosis of gastrointestinal bleeding.



## Test procedure



### Interpretation of the results



The intensity of the red coloured band in the test line (T) in the results window will vary depending on the concentration of human haemoglobin present in the specimen.

## Clinical Sensitivity and Specificity

### CerTest FOB vs Human Hemoglobin ELISA kit:

|                    | Mean Value | 95% CI (confidence interval) |
|--------------------|------------|------------------------------|
| <b>Sensitivity</b> | 100.0%     | 90.7 - 100.0%                |
| <b>Specificity</b> | 81.7%      | 69.6 - 90.5%                 |
| <b>PPV</b>         | 77.6%      | 63.4 - 88.2%                 |
| <b>NPV</b>         | 100.0%     | 92.7 - 100.0%                |

**CerTest**  
BIOTEC

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For more information and use procedure, read the instructions for use included in this product.



RapidTest/IU-F8F/0823EN