

Application Note**FOB Turbilatex, CA800, Furuno**
(AN-Fb-CA800.EN rev 2020.03.23)For *in vitro* diagnostic device
ENGLISH**General Information****Intended use:**

FOB Turbilatex is a latex turbidimetric assay for the quantitative detection of human haemoglobin (hHb) in human stool samples.

This assay is simple and widely applicable. Test results aid in a presumptive diagnosis of faecal occult blood (gastrointestinal bleeding).

For professional *in vitro* diagnostic use only.

FOB Turbilatex can be performed on every open chemistry analyser. Please follow the subsequent instructions in order to assure performance characteristics as describes in the instructions for use. This instruction has been validated by CerTest BIOTEC S.L Laboratories.

Additionally, please read the "Instructions for use" for instructions on operating and programming user defined test.

Reagents:**Materials provided by CerTest BIOTEC S.L.:**

Reagents	Quantity	Cat. reference
Turbidimetric reagents (R1 & R2) 200 Det/kit	R1: 2 vials, 2x15 mL. R2: 1 vial, 1x6 mL.	TL-022FB01 TL-022FB02
Auxiliary Reagents	Quantity	Cat. reference
Calibration kit	Calibrator: 6 vials, 6x1mL.	TL-022FB70, TL-022FB71, TL-022FB72, TL-022FB73, TL-022FB74, TL-022FB75
Controls kit	Control C1, 2 vials, 2x1 mL/vial. Control C2, 2 vials, 2x1 mL/vial.	TL-022FB08 TL-022FB09
Sample diluent kit	4 vials, 4x125 mL/vial	TL-022FB03E
Sample dilutions vials	1x2 mL/vial 1x2 mL/vial	MST-0005MF MST-0009F

Preparation of reagents:

R1 and R2 are ready to use.

Calibrators are ready to use.

Controls are ready to use.

Storage and stability

Kit components must be stored at temperature indicated on the label. Do not freeze.

Reagents are stable up to the expiration date printed on the label, always considering that reagent containers must be properly closed to avoid any contamination, must be kept away from the sunlight and conserved at temperature indicated on the label of each reagent.

Specimen:

Collect enough quantity of human stool samples. These samples should be collected in clean and dry containers (no preservatives or transport media). The samples can be stored in the refrigerator (2-8°C) for 3 days prior to testing. Homogenise stool samples as thoroughly as possible prior to preparation.

The sample dilution vial with diluted sample can be stored for 7 days in the refrigerator (2-8°C) prior to testing.

Use FOB Turbilatex stool collection tubes for sample collections described the instructions for use.

Assay procedure**Application parameter set up:**

Specific analyzers settings for FOB Turbilatex must be programmed onto the analyzer, see below. For instructions, consult the CA800 (Furuno) analyzer manual and instructions for use provided with the kits.

Loading of reagents:

Load reagents according to the CA800 (Furuno) analyzer manual.

Calibration curve establishment:

A 6 points calibration curve can be established in CA800 (Furuno) analyzer. For instructions consult analyzer manual.

Calibration stability:

Calibrate the system at least once a month is extremely recommended. Recalibrate the system when reagent lot is change or when the controls are out of the assigned range given in the control label and CoA.

QC controls:

FOB Turbilatex controls C1 and C2 must be assayed each day before running patient fecal sample extract to validate the calibration curve. The controls have assigned value ranges indicated on the label and certificate of analysis supplied. The control measurements must be within the indicated value range to obtain valid results for patient fecal extract. If the control values are out of range, follow next procedures: 1) Repeat QC control measurement, 2) Repeat calibration measurement.

Results:

The results are evaluated automatically by the analyzer and presented in ng hHb/mL.

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General characteristics

The following results have been obtained during validation of FOB Turbilatex in Biolis 24i (Tokyo Boeki) analyzer.

Measuring range:

FOB Turbilatex assay measuring range is 7.1-1000 ng hHb/mL on the Biolis 24i (Tokyo Boeki) analyzer. Samples higher concentrated than 1000 ng hHb/mL must be diluted for proper quantification by the user, using additional sample buffer.

Detection limit

Limit of detection (LOD): 7.1 ng hHb/mL. The lower limit of detection of FOB Turbilatex was determined on 20 samples and 2 sample replicates as the mean value + 2 SD.

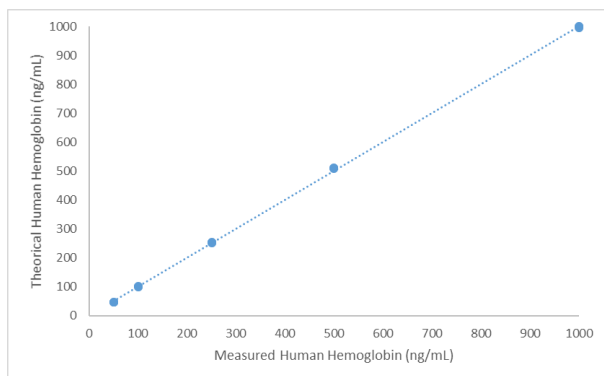
Precision

FOB Turbilatex was tested with three different controls levels.

	Low (50 ng/mL)	Medium (200ng/mL)	High (350 ng/mL)
N	20	10	10
Mean (ng/mL)	46.5	194.0	340.1
SD (ng/mL)	4.3	1.7	1.3
CV (%)	9,2	0.9	0.4

Linearity:

FOB Turbilatex on Biolis 24i analyzer using calibrator kit is linear in the calibration range of 0-1000 ng hHb/mL.



Prozone effect

Using the reported parameters, no hook effect was observed up to 2 µg hHb/mL. Samples with Haemoglobin concentration of 2 µg hHb/mL give a typical positive result >1000 ng hHb/mL. These are data obtained for Biolis 24i analyzer. It is recommended to validate these data on every analyzer.

Method comparison

Results obtained with FOB Turbilatex on the Biolis 24i analyzer were compared with those obtained with EIKEN FOB Latex.

	Sensitivity	Specificity
FOB Turbilatex vs EIKEN FOB Latex	96%	>99%

Shipping damage

Please notify your distributor, if this product was received damaged.

Symbols key

	For <i>in vitro</i> diagnostic use only		Keep dry
	Consult instructions for use		Temperature limitation
	Catalogue number		Lot number
	Use by		Manufacturer
	Contains sufficient for <n> test		Sample diluent
	Keep out of the sunlight		

Manufacturer

CERTEST BIOTEC

Pol. Industrial Río Gállego II, Calle J, Nº 1, 50840, San Mateo de Gállego, Zaragoza (SPAIN)
www.certest.es

NOTES

Please refer to the instruction for use for the detailed information about the test on the following:

Synthesis; Principle; Precautions; Reagents; Specimen collection; Interpretation of results.



CA800 (Furuno) / Application parameters

ASSAY PARAMETERS	
Std. No	6
R1	60 µL
Sample	6 µL
R2	15 µL
Others	NA
Reaction mode	End up
Primary wavelength	510 nm
Secondary wavelength	None
Direction	Increase
Self blank lecture (cycle)	35-37
Final lecture (cycle)	64-66
Linear range	0-1000 ng/ml
CALIBRATION	
Calibration Method	Linear
Calibration set	6 calibrators
Blank	Calibrator 1 (0 ng/ml)
Calibrator 1	Calibrator 2 (50 ng/ml)
Calibrator 2	Calibrator 3 (100 ng/ml)
Calibrator 3	Calibrator 4 (250 ng/ml)
Calibrator 4	Calibrator 5 (500 ng/ml)
Calibrator 5	Calibrator 6 (1000 ng/ml)