

Application Note

FOB Turbilatex, Architect c1000/c4000/c8000, Abbott

(AN-Fb-Architect c1000/c4000/c8000.EN rev 2019.01.11)

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:

Reagents	Quantity	Code
Turbidimetric reagents (R1 & R2) 200 Det/kit	R1: 2 vials, 2x22 mL R2: 1 vial, 1x13 mL	TL-022FB01 TL-022FB02
Auxiliary Reagents		
Calibration kit	Calibrator: 6 vials, 6x1 mL.	TL-022FB70, TL-022FB71, TL-022FB72, TL-022FB73, TL-022FB74, TL-022FB75
Controls kit	Control C1, 2 vials, 2x1mL/vial. Control C2, 2 vials, 2x1mL/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 7 days prior to testing. Homogenise stool samples as thoroughly as possible prior to preparation.

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 Architect c1000/c4000/c8000 (Abbott) analyzer manual and instructions for use provided with the kit.

Loading of reagents:

Load reagents according to the Architect c1000/c4000/c8000 (Abbott) analyzer manual.

Calibration curve establishment:

A 6 point calibration curve can be established in Architect c1000/c4000/c8000 (Abbott) 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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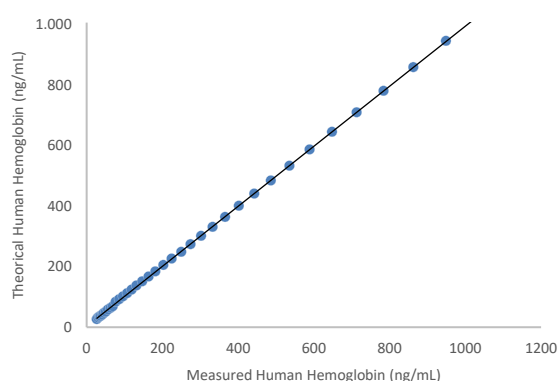


Performance characteristics

The following results have been obtained during the validation of FOB Turbilatex on the Architect c1000/c4000/c8000 (Abbott) analyzer.

Linearity:

FOB Turbilatex on Architect c1000/c4000/c8000 (Abbott) analyzer using calibrator kit is linear in the calibration range of 0-1000 ng hHb/mL.



Measuring range:

FOB Turbilatex assay measuring range is 20-1000 ng hHb/mL on the Architect c1000/c4000/c8000 (Abbott) analyzer. Samples higher concentrated than 1000 ng hHb/mL must be diluted for proper quantification.

Prozone effect

Using the reported parameters, no hook effect was observed up to 10 µg hHb/mL. Samples with Haemoglobin concentration of 16 µg/mL give a typical positive result >1000 ng hHb/mL.

Detection limit

Limit of detection (LOD): 15 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.

Limit of quantification (LOQ): 20 ng hHb/mL. The lower limit of quantification is defined as the lowest actual amount of analysis that can be reliably detected; imprecision is < 20% as CV% on the Architect c1000/c4000/c8000 (Abbott) analyzer.

Precision

FOB Turbilatex was tested with three different controls levels.

	Low (20 ng/mL)	Medium (80 ng/mL)	High (250 ng/mL)
N	20	20	20
Mean (ng/mL)	19.8	81.1	247.8
SD (ng/mL)	1.6	4.2	8.4
CV (%)	8	5	3

Method comparison

Results obtained with FOB Turbilatex on the Architect c1000/c4000/c8000 (Abbott) 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.

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**Architect c4000/c8000 (Abbott)****Application parameters****Test information:**

Std. No	6
R1	200 µl
Sample	20 µl
R2	55 µl

Reaction parameters:

Reaction type	Endpoint
Primary Wavelength	500 nm
Secondary Wavelength	None
Direction	Increase
Reagent Blank Lecture	19 cycle
Final Lecture	24-25 cycle
Reaction Time	10 min
Linear range	0-1000 ng/ml

Calibration	Linear
Calibrator 0	0 ng/ml
Calibrator 1	50 ng/ml
Calibrator 2	100 ng/ml
Calibrator 3	250 ng/ml
Calibrator 4	500 ng/ml
Calibrator 5	1000 ng/ml

Steps:

Addition R1
Addition Sample
Incubation 5 min
Addition R2
Blank Lecture
Incubation 5 min
Final lecture

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Assay: CERFOB	Type: Photometric	Version: 1
Number: 2041	Assay availability: Enabled	Date: 19.01.2018
Run controls for onboard reagents by: Kit		Time: 13:03:10
		Operator: ADMIN

<input checked="" type="radio"/> Reaction definition	<input type="radio"/> Reagent / Sample	<input type="radio"/> Validity checks
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Reaction mode: End up		
	Primary	Secondary
Wavelength:	500 / None	Read times
		Main: 24 -- 25
Last required read:	33	
Absorbance range:	--	Color correction: --
Sample blank type:	Self	Blank: 19 -- 19

<input checked="" type="radio"/> General	<input type="radio"/> Calibration	<input type="radio"/> SmartWash	<input checked="" type="radio"/> Results	<input type="radio"/> Interpretation
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		R1	R2
Reagent: CERFOB		Reagent volume: 200	55
Diluent: <None>		Water volume:	
Diluent dispense mode: Type 0		Dispense mode: Type 0	Type 0

Dilution name	Sample	Diluted sample	Diluent	Water	Dilution factor	Default dilution
STANDARD	:	20.0		=	1:1.00	<input type="radio"/>