

General Information

Intended use:

Transferrin Turbilatex is a latex turbidimetric assay for the quantitative detection of human transferrin (hTf) 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.

Transferrin 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-022TF01 TL-022TF02
Auxiliary Reagents		
Calibration kit	Calibrator: 6 vials, 6x1 mL.	TL-022TF70, TL-022TF71 TL-022TF72 TL-022TF73 TL-022TF74 TL-022TF75
Controls kit	Control C1, 2 vials, 2x1 mL/vial. Control C2, 2 vials, 2x 1 mL/vial.	TL-022TF08 TL-022TF09
Sample diluent kit	4 vials, 4x125 mL/vial	TL-022UN03E
Sample dilutions vials	1x2 mL/vial	MST-0018MU
	1x2,4 mL/vial	MST-0019U

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. For longer storage, maximum 6 months, the specimen must be kept frozen at -20°C. In this case, the sample will be totally thawed, and brought to room temperature (15-30°C) before testing. Freezing and thawing cycles are not recommended. 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 Transferrin Turbilatex stool collection tubes for sample collections described the instructions for use.

Assay procedure

Application parameter set up:

Specific analyzers settings for Transferrin Turbilatex must be programmed onto the analyzer, see below. For instructions, consult the Biolis 24i/50i (Tokio Boeki) analyzer manual and instructions for use provided with the kit.

Loading of reagents:

Load reagents according to the Biolis 24i/50i (Tokio Boeki) analyzer manual.

Calibration curve establishment:

A 6 point calibration curve can be established in Biolis 24i/50i (Tokio Boeki) 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:

Transferrin 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:

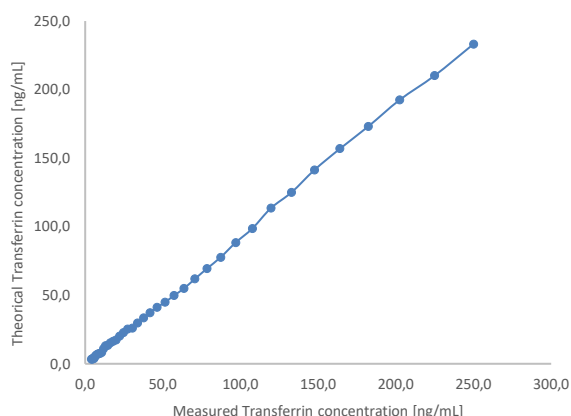
The results are evaluated automatically by the analyzer and presented in ng hTf/mL.

Performance characteristics

The following results have been obtained during the validation of Transferrin Turbilatex on the Biolis 24i/50i (Tokyo Boeki) analyzer.

Linearity:

Transferrin Turbilatex on Biolis 24i/50i (Tokyo Boeki) analyzer using calibrator kit is linear in the calibration range of 0-250 ng hTf/mL.



Measuring range:

Transferrin Turbilatex assay measuring range is 2-250 ng hTf/mL on the Biolis 24i/50i (Tokyo Boeki) analyser. Samples higher concentrated than 250 ng hTf/mL must be diluted for proper quantification by the user, using additional sample buffer.

Prozone effect

Using the reported parameters, no hook effect was observed up to 10 µg hTf/mL. Samples with Transferrin concentration of 10 µg/mL give a typical positive result >250 ng hTf/mL.

Detection limit

Limit of detection (LOD): 1.4 ng hTf/mL. The lower limit of detection of Transferrin Turbilatex was determined on 20 samples and 2 sample replicates as the mean value + 2 SD.

Limit of quantification (LOQ): 2 ng hTf/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 Biolis 24i/50i (Tokyo Boeki) analyzer.

Precision

Transferrin Turbilatex was tested with three different controls levels.

	Low (15 ng/mL)	Medium (80 ng/mL)	High (200 ng/mL)
N	20	20	20
Mean (µg/g)	16.1	80.6	197.2
SD (µg/g)	1.2	3.6	10.3
CV (%)	7.4	4.7	5.2

Method comparison

Results obtained with Transferrin Turbilatex on the Biolis 24i/50i (Tokyo Boeki) analyzer were compared with an immunochromatographic test (CerTest Transferrin, CerTest).

The results were as follows:

	Sensitivity	Specificity
Transferrin Turbilatex vs CerTest Transferrin	95%	>99%

Shipping damage

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

Symbols key

IVD	For in vitro diagnostic use only		Keep dry
	Consult instructions for use		Temperature limitation
REF	Catalogue number	LOT	Lot number
	Use by		Manufacturer
	Contains sufficient for <n> test	DIL	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.

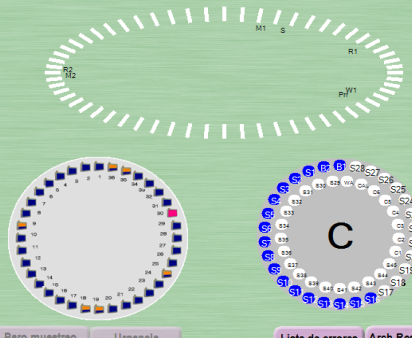
Biolis 24i/50i (Tokyo Boeki) /Application parameters

ASSAY PARAMETERS	
Std. No	6
R1	200 µL
Sample	30 µL
R2	55 µL
Others	NA
Reaction mode	Endpoint
Primary wavelength	505 nm
Secondary wavelength	800 nm
Direction	Increase
Reagent blank lecture	33-34 cycle
Final lecture	51-52 cycle
Reaction time	10 min
Linear range	0-250 ng/ml
CALIBRATION	
Calibration Method	Linear
Calibration set	5 calibrators + Blank
Blank	Calibrator 1 (0 ng/mL)
Calibrator 1	Calibrator 2 (10 ng/mL)
Calibrator 2	Calibrator 3 (25 ng/mL)
Calibrator 3	Calibrator 4 (50 ng/mL)
Calibrator 4	Calibrator 5 (100 ng/mL)
Calibrator 5	Calibrator 6 (250 ng/mL)
STEPS	
Addition R1	
Addition Sample	
Incubation	
Addition R2	
Blank Lecture	Cycle 33-34
Incubation	
Final lecture	Cycle 51-52

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Menú de rutina F1 Calibración F2 QC F3 Reactivo F4 Parametro Operación simpli Sistema Mantenimiento

R-monitor Info. Reactivo



Ciclo	Samp_ID	arametr	Ciclo	Samp_ID	arametr
1			31	6	
2			R2		
3			M2		
4			M2		
5			S		
6			S		
R1			35	5	
7			37		
8			38		
9			39	4	
10			40		
11			41		
S			42		
M1			43	3	
M1			44		
15	10		45		
16			46		
17			47	2	
18			48		
19	9		49		
20			50		
21			51	1	
22			52		
23	8		53		
24			54		
25			55	0	
26			W1		
27	7		57		
28			58		
29			59		
30			60		

Paro muestreo Urgencia Lista de errores Arch.Resultados

Monitor F5 Pedido F6 R & E F7 R - Mon F8 Preparado F9 Iniciar F10 Iniciar QC F11 E.Stop F12

Preparado

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Menú de rutina F1 Calibración F2 QC F3 Reactivo F4 Parametro Operación simpli Sistema Mantenimiento

No. Parametr 31 Nombre parametr TF 1 Nombrecomp Transferrina Optica

Información Datos

Unidades ng/ml

Decimales 3

Análisis

Tipo Punto Final: Abs principal fuera

Longitud de onda princ. 505nm

Longitud de onda Sub 800nm

Metodo

Correlación

Y = 1 * X + 0

Calibración

Tipo Spline1

Std Conc.	Muestra
0	#1
10	#2
25	#5
50	#3
100	#4
250	#6

Estabilidad Cal 0

Tamaño Botella (ml)

24 Parametros	36 Parametros
REACTIVO1 60	REACTIVO1 40
REACTIVO2 R1 40	REACTIVO2 R1 25
REACTIVO2 R2 20	REACTIVO2 R2 13

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Menú de rutina F1 Calibración F2 QC F3 Reactivo F4 Parametro Operación simpli Sistema Mantenimiento

No. Parametr 31 Nombre parametr TF 1 Nombrecomp Transferrina Optica

Aspiración

Clase Individual Doble

Clase	Vol.	Unidades
Muestra	30	ul
Reactivo 1	200	ul
Reactivo 2	55	ul

Valor Blanco Blanco Agua Blanco Reactivo

Pantalla Reacción

Nivel 0 Puntos 1

Extensión 3

Datos a procesar

Leer

	Iniciar	Final
Principal	S1	S2
Sub	S3	S4

Abs. Limite

Corrección en valor

Corrección en blanco 1

Limite Punto Final 3

Comprobar Linealidad (%) 90

Chequeo Prozona

	Iniciar	Final	Limite 00
Primero			
Segundo			

Alto Bajo

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Monitor F5 Pedido F6 R & E F7 R - Mon F8 Preparado F9 Iniciar F10 Iniciar QC F11 E.Stop F12

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