

Application Note**H. pylori Turbilatex, BS-200/200E, Mindray**
(AN-Hp-BS-200.EN rev. 2019.05.28)For *in vitro* diagnostic device

ENGLISH

**General Information****Intended use:**

H. pylori Turbilatex is a latex turbidimetric **assay only for the quantitative detection of *Helicobacter pylori* antigen in human stool samples** (not to be used for body fluid as blood, serum, plasma, urine, cerebrospinal fluid, oral fluid, synovial fluid or empyema fluid). This assay is simple and widely applicable.

For professional *in vitro* diagnostic use only.

H. pylori 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, 3x33 mL R2: 1 vial, 1x7 mL	TL-022HP01 TL-022HP02
Auxiliary Reagents	Quantity	Cat. referece
Calibration kit	Calibrator: 6 vials, 6x1mL.	TL-022HP70, TL-022HP71, TL-022HP72, TL-022HP73, TL-022HP74, TL-022HP75
Controls kit	Control C1, 2 vials, 2x1 mL/vial. Control C2, 2 vials, 2x1 mL/vial.	TL-022HP08 TL-022HP09
Sample diluent kit	4 vials, 4x125 mL/vial	TL-022HP03E
Sample dilutions vials	1x2 mL/vial 1x2 mL/vial	MST-0014MP MST-0015P

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.

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

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

Assay procedure**Application parameter set up:**

Specific analyzers settings for H. pylori Turbilatex must be programmed onto the analyzer, see below. For instructions, consult the BS-200 (Mindray) analyzer manual and instructions for use provided with the kit.

Loading of reagents:

Load reagents according to the BS-200 (Mindray) analyzer manual.

Calibration curve establishment:

A 6 point calibration curve can be established in Mindray BS200 analyzer. For instructions consult analyzer manual.

Calibration stability:

Calibrate the system at least once a 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 labels and CoA.

QC controls:

H. pylori Turbilatex controls C1 and C2 must be assayed each day before running patient faecal 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 faecal 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 H.pylori antigen/mL.

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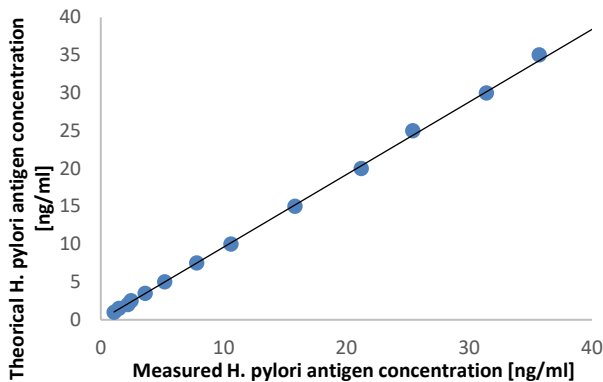


Performance characteristics

The following results have been obtained during the validation of H.pylori Turbilatex on the BS-200 (Mindray) analyzer.

Linearity:

H. pylori Turbilatex on BS-200 (Mindray) analyzer using calibrator kit is linear in the calibration range of 0-50 ng H.pylori antigen/mL.



Measuring range:

H.pylori Turbilatex assay measuring range is 1-40 ng H.pylori antigen/ml on the BS-200 (Mindray) analyzer. Samples higher concentrated than 40 ng H.pylori antigen/ml of stool must be diluted for proper quantification by the user, using additional sample buffer.

Prozone effect

Using the reported parameters, no prozone effect (hook effect) was observed up to 2000 ng H.pylori/mL. Samples with H. pylori antigen concentration of 100 ng H. pylori antigen/mL give a typical positive result >40 ng H.pylori antigen/mL.

Detection limit

Limit of detection (LOD): 0.5 ng H. pylori antigen/mL. The lower limit of detection of Calprotectin Turbilatex was determined on 20 samples and 2 sample replicates as the mean value + 2xSD.

Limit of quantification (LOQ): 1 ng H. pylori antigen/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 BS-200 (Mindray) analyzer.

Precision

H. pylori Turbilatex was tested with three different controls levels.

	Low (1 ng/mL)	Medium (10 ng/mL)	High (40 ng/mL)
N	20	20	20
Mean (ng/ml)	1.05	9.82	41.32
SD (ng/ml)	0.14	0.91	2.52
CV (%)	13	9	6

Method comparison

Results obtained with H. pylori Turbilatex on the BS-200 (Mindray) analyzer were compared with an immunochromatographic test (CerTest H. pylori, CerTest). The results were as follows:

	Sensitivity	Specificity
H. pylori Turbilatex vs CerTest H. pylori	88%	>98%

Shipping damage

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

NOTES

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

Synthesis; Principle; Precautions; Reagents; Specimen collection and preparation; Interpretation of results and limitations.

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	DIL	Sample diluent
	Keep out of the sunlight		

Manufacturer

CERTEST BIOTEC S.L.

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

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The parameters optimized for BS-200 might be applied for BS-200E.

BS-200 (Mindray) /Application parameters

ASSAY PARAMETERS	
Std. No	6
R1	305 µL
Sample	15 µL
R2	25 µL
Others	NA
Reaction mode	Endpoint
Primary wavelength	450 nm
Secondary wavelength	800 nm
Direction	Increase
Reagent blank lecture	1 cycle
Final lecture	20 cycle
Reaction time	10 min
Linear range	0-40 ng/ml
CALIBRATION	
Calibration Method	Linear
Calibration set	6 calibrators
Blank	Calibrator 1 (0 ng/ml)
Calibrator 1	Calibrator 2 (2.5 ng/ml)
Calibrator 2	Calibrator 3 (5 ng/ml)
Calibrator 3	Calibrator 4 (10 ng/ml)
Calibrator 4	Calibrator 5 (20 ng/ml)
Calibrator 5	Calibrator 6 (40 ng/ml)
STEPS	
Addition R1	
Addition Sample	
Incubation	5 min
Addition R2	
Blank Lecture	
Incubation	5 min
Final lecture	

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Test Perfil Cálculo De otro sist Remanente

Test	Parámetros	Referenc	Calibración	CC
FOB Turbilateral	Test	Pylori Turbilateral 2	R1	305
CP Turbilateral	Nº	6	R2	25
Pylori Turbilateral	Nomb comp		Volum muestra	15
F-Cal Turbo	Nº estándar		Blanc R1	
CP Turbilateral 2	Tipo reac	Pto fin	Blan react mez	
Pylori Turbilateral 2	Onda prim	450nm	Interv lineali	
	Onda secu	800nm	Límite lineali	
	Dirección	Aumentar	Límit sustrato	
	Tiem reac	1 -20	Factor	
	Tiem incu	14	Compensar Pend	1 Interse 0
	Unidad	ng/mL	Comprobación pro:	q1 q2 q3 q4
	Precisión	0.1	CP	Abs

Seleccionar un test que desee ver

Añadir Borrar OK Cancel Configurar

Service 14:24:53 Error softw de operac: Comprobación de encendido anómala Eliminar

