

# Pancreatic Elastase Turbilatex, Cobas Integra 400 Plus, Roche

(AN-EL-Cobas Integra 400 Plus. EN rev 2023.06.06)

## General Information

### Intended use:

Pancreatic Elastase Turbilatex is a latex turbidimetric assay only for the quantitative detection of Pancreatic elastase E1 in human stool samples.

This assay is simple and widely applicable. This product is optimized for several automated analyser.

Test results should exclusively be used to evaluate exocrine pancreatic function in stool samples.

For professional *in vitro* diagnostic use only.

Pancreatic Elastase 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)	R1: 2 vials, 2x17 mL R2: 1 vial, 1x32 mL	TL-022EL01 TL-022EL02
200 Det/kit		
<b>Auxiliary Reagents</b>		
Calibration kit	Calibrator: 6 vials, 6x1 mL.	TL-022EL70, TL-022EL71 TL-022EL72 TL-022EL73 TL-022EL74 TL-022EL75
Controls kit	Control C1, 2 vials, 2x1 mL/vial.	TL-022EL08
	Control C2, 2 vials, 2x 1 mL/vial.	TL-022EL09
Sample dilutions vials	1x2.4 mL/vial	MST-0021E
	1x2 mL/vial	MST-0022ME

### 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. 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.

Use Pancreatic Elastase Turbilatex sample collection vials for sample collections described the instructions for use.

## Assay procedure

### Application parameter set up:

Specific analysers settings for Pancreatic Elastase Turbilatex must be programmed onto the analyser, see below. For instructions, consult the Cobas Integra 400 Plus (Roche) analyser manual and instructions for use provided with the kit.

### Loading of reagents:

Load reagents according to the Cobas Integra 400 Plus (Roche) analyser manual.

### Calibration curve establishment:

A 6 point calibration curve can be established in Cobas Integra 400 Plus (Roche) analyser. For instructions consult analyser 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:

Pancreatic Elastase 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 analyser and presented in µg hEL/g of stool.

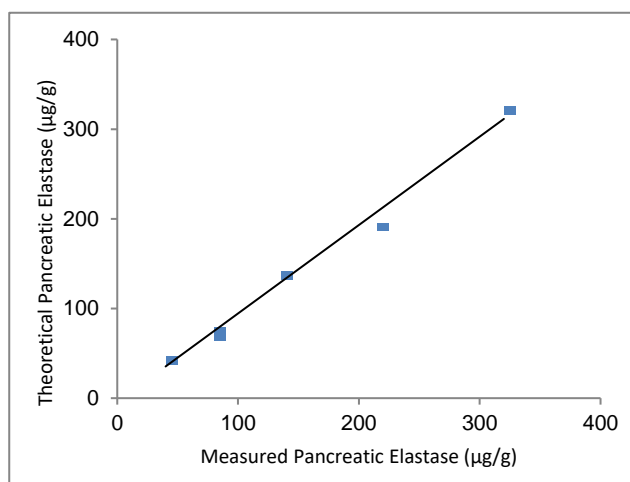
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## Performance characteristics

### Linearity:

Pancreatic Elastase Turbilatex using calibrator kit is linear in the calibration range of 0-400 µg hEL/g of stool.



### Measuring range:

Pancreatic Elastase Turbilatex assay measuring range is 3.2-1250 µg hEL/g of stool on Cobas Integra 400 Plus (Roche) analyser. Samples higher concentrated than 400 µg hEL/g of stool 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 1250 µg hEL/g of stool. Samples with Pancreatic Elastase concentration of 1250 µg hEL/g of stool give a typical positive result >400 µg hEL/g.

### Detection limit

**Limit of detection (LOD): 1.5 µg hEL/g of stool (\*).** The lower limit of detection of Pancreatic Elastase Turbilatex was determined on 20 samples and 2 sample replicates as the mean value+2·SD.

**Limit of quantification (LOQ): 3.2 µg hEL/g of stool (\*).** The lower limit of quantification is defined as the lowest actual amount of analysis that can be reliably detected; imprecision is < 20% as CV%.

(\* ) Data obtained by the analyser Biolis 24i (Tokyo Boeki)

### Precision

Pancreatic Elastase Turbilatex was tested with three different controls levels.

	Low (25 µg/g)	Medium (100 µg/g)	High (200 µg/g)
N	20	20	20
Mean (µg/g)	25.8	95.8	192.0
SD (µg/g)	2.4	3.0	1.6
CV (%)	9.3	3.1	0.8

### Method comparison

Results obtained with Pancreatic Elastase Turbilatex on the analyser Biolis 24i (Tokyo Boeki) were compared with a commercial immunoassay (Pancreatic Elastase 1 Quick®, Schebo).

	Sensitivity	Specificity
Pancreatic Elastase 1 Quick®	95%	>99%

### Shipping damage

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

### Symbols key

	For in vitro 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

Pol. Industrial Río Gállego II, Calle J, N° 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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**Cobas Integra 400 Plus (Roche)/Application parameters**

<b>ASSAY PARAMETERS</b>	
Std. No	6
R1	110 µL
Sample	5 µL
R2	10 µL
Others	No water
Reaction mode	End point RI-S-R2
Primary wavelength	480 nm
Secondary wavelength	800 nm
Direction	Increase
Self blank	35 cycle
Final lecture	63 cycle
Reaction time	10 min
Linear range	0-400 µg/g
<b>CALIBRATION</b>	
	Linear
Calibration set	5 calibrators+Blank
Blank	Calibrator 1 (0 µg/g)
Calibrator 1	Calibrator 2 (25 µg/g)
Calibrator 2	Calibrator 3 (50 µg/g)
Calibrator 3	Calibrator 4 (100 µg/g)
Calibrator 4	Calibrator 5 (200 µg/g)
Calibrator 5	Calibrator 6 (400 µg/g)
<b>STEPS</b>	
Addition R1	
Addition Sample	
Incubation	
Addition R2	
Blank Lecture	35 cycle
Incubation	
Final lecture	63 cycle