HumaClot Pro REF 15800

For additional information, please refer to the User Manual of the analyzer and check current instructions for use for reagents, controls, calibrators and tables of assigned/analytical values. Typical performance data can be found in the Verification Report of the HumaClot Pro, accessible via

www.human.de/data/gb/vr/15800.pdf www.human-de.com/data/gb/vr/15800.pdf

If the performance data are not accessible via internet, they can be obtained free of charge from your local distributor.

The parameters defined in this application sheet have been developed to provide optimal product performance with the assay and instrument combination. Any modification to these parameters may affect performance of this and other assays in use on your system and the resulting assay values. It is the responsibility of the user to validate any modifications and their impact on all assay results. The application sheet lists all combinations of controls and calibrators for use with the reagent and instrument system; other combinations are not validated or supported.

Material	REF	Size	Position On-Board
HEMOSTAT D-Dimer	36002		
RGT D-Dimer Latex reagent		2 x 1 ml	R4-R15
BUF Reaction buffer	-	2 x 2.5 ml	R4-R15
CAL Calibrator	_	1 x 1 ml	C1 in sample - cup
DIL Diluent		1 x 6 ml	C2 in sample - cup
HEMOSTAT D-Dimer Control High	36012	2 x 1 ml	Sample rack position 01-22
HEMOSTAT D-Dimer Control Low	-	2 x 1 ml	or position C7-C8 (when using QC-program)
Cuvette Ring	15800/10	6 x 10 x 32 pcs	Cuvette Ring Rotor
WASH HumaClot Pro Wash Solution	15800/20	15 ml	W1
CLEAN HumaClot Pro Cleaner	15800/30	15 ml	W2
Sample Cups (2 x 250 pieces) "Human"or	15800/25	4 ml	-
Sample Cups (500 pieces),,Hitachi"	17470/59	2 ml	-

Material Required

Additional Notes

If reagents, rinse solutions or buffers are not supplied in exactly fitting vials it is necessary to transfer them into appropriate vials. The required controls have to be transferred into appropriate sample cups.



On-Board Stability

Material	Name in the Test Protocol	Listed in the Test Setting as	Time [h]
RGT D-Dimer Latex reagent	D-Dimer RGT	Start-Reagent	72
BUF Reaction buffer	D-Dimer BUF	Reagent 1	72
DIL Diluent	D-Dimer DIL	only for calibration	8
CAL Calibrator	D-Dimer CAL	only for calibration	8
HEMOSTAT D-Dimer Control High	-	Load as sample or as QC (when using QC- program)	8
HEMOSTAT D-Dimer Control Low	-	Load as sample or as QC (when using QC- program)	8

The above stated stability data was established under controlled laboratory conditions. The above-mentioned on-board stability values may deviate due to differences in laboratory environmental conditions.

Reagent Settings

Enter the LOT numbers into the reagent settings.

Reagent Setup			
REF	36002		
HEMOSTAT D-Dimer	Hemostat DDi	Hemostat DDi	Hemostat DDi
Reagent Name	D-Dimer RGT	D-Dimer BUF	D-Dimer DIL
Position in List	7	8	9
Abbreviation	DDRGT	DDBUF	DDDIL
LOT	Please insert LOT number	Please insert LOT number	Please insert LOT number
Vial	5ml-HumGL*	5ml-HumGL*	Sample cup 1-2 ml

*5ml-HumGL (5ml HUMAN Glass Bottle)

Interference Studies

No interference up to					
Bilirubin	mg/dl	10	spiked low positive plasma	25	
Hemoglobin	mg/dl	200		200	spiked highly positive
Lipids	mg/dl	69		57	Plasma

Higher lipid values or turbid samples can result in falsely elevated or false low values. As a result, it is recommended to centrifuge lipemic patient samples at 15 000 x g for 10 minutes, prior to analysis.



Performance Characteristics		
Measuring Range		
Analytical measuring interval	150 ng/ml to 2600 ng/ml DDU	
Reportable interval	150 ng/ml to 75000 ng/ml DDU	

The Analytical measuring interval, which is displayed on the instrument, is 150 ng/ml to 2600 ng/ml DDU. For sample results displaying "> 2600 ng/ml" DDU a manual dilution of the sample with HEMOSTAT D-Dimer Diluent needs to be done and re-measured. To obtain the true result of the diluted sample, the displayed result needs to be multiplied by the dilution factor.

Example 1: If the true sample result of an undiluted patient sample is at e.g., 3600 ng/mL, then the result is displayed as "> 2600 ng/ml". The sample needs to be re-run after manual 1:6 dilution. The displayed result needs to be multiplied by 6 to obtain the true result of the diluted sample.

Example 2: If the true sample result of an undiluted patient sample is at e.g., approx. 17000 ng/mL, then the result is displayed as "not linear" or >2600 ng/ml. After 1:6 dilution of the sample, the result will be displayed again as "not linear" or >2600 ng/ml. The 1:6 diluted sample, subsequently, needs to be diluted 1:8 in order to obtain a displayed result that is within the analytical measuring interval. The displayed result needs to be multiplied by 48 to obtain the true result of the diluted sample.

Samples with values below 150 ng/ml will be reported as <150 ng/ml.

eference Interval		
Normal D-dimer level		
Adults	< 200 ng/ml DDU (equivalent to 500 ng/ml FEU)	
lease note: he reference intervals vary from labo eagent LOT used. Therefore, each labo	ratory to laboratory depending on the population served, tech pratory must establish its own reference intervals or verify the	nnique and em whenever

For more information how to establish reference intervals see CLSI document C28-A3.



Standard Curve Calibration

A new standard curve must be established when changing a kit LOT, after major maintenance or service, if indicated by quality control results and when required by laboratory control procedures and/or government regulations.

Calibration Settings

Test Hemostat DDi	
Field Name	Settings
1 st conversion	Interpolation
Unit conversion	mE/min -> ng/ml
Mode: in/out	lin -> lin
Output Format	XXXX.X
Auto-Calibration	
Diluent	D-Dimer DIL
Determination	2
Deviation	20%
Сир	Human or Hitachi
Calibration Values	
0	220 ng/ml
1	400 ng/ml
2	800 ng/ml
3	1600 ng/ml
4	2600 ng/ml
Standard	
Concentration	Please insert concentration (ng/ml)*
Name	Hemostat DD CAL
LOT	Please insert LOT number
Conversion range	150 – 2600 ng/ml

*refer to the Table of Analytical Values for the LOT-specific calibrator value

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