

## STAR HUMAN Sciences Pvt. Ltd.

25-B/7, New Rohtak Road, Karol Bagh, New Delhi - 110005, India Tel. +91-11-28721843, Mob. 9873686675, 9810028448 E-mail info@starhuman.in, www.starhuman.in

#### CERTIFICATE OF CALIBRATION

Naranyan Pathology & Biopsy Centre 117/22, Sarvodya Nagar ( Opp J.L Rohtagi Eye Hospital Near Baba Bhothnath Ashram) Kanpur-208005

This is to certify that the Instrument Humastar 200 Blochemistry Analyzer bearing serial no. 21191146004 manufactured by HUMAN GERMANY is in full working and has been calibrated to the standard specifications for the period of 09<sup>th</sup> December 2021 to 8<sup>th</sup> December 2022

Date of calibration: 09-12-2021

This calibration certificate is valid up to 08-12-2022

For Star Human Sciences Pvt. Ltd.

(Authorized Signatory)

#### **Technical Calibration Detail**

#### HS200 S. no. 21191146004

ITEMS	value	Target range
Lamp		an governing o
mV @ 340 nm	1230	900-1500
Current mV	6.5	OK
Efficiency@340	69	54-130
Pump		
Pump 1-5 volume uL	In range	220-520
Pump 1-5 flow rate uL/Sec	ОК	550-850

Other mechanical parameters in OS are in range as per standard criteria.

Dated-09-Dec-2021

Service Engineer

For Star Human Sciences Pvt. Ltd.

# Performance Qualification HumaStar 100, HumaStar 200, HumaStar 300SR and HumaStar 600

#### **Revision list**

Revision	Date	Description	Editor
1	2018/08/14	First revision	Silvia Fischer

#### Lab Name

Narayan Pathology And Biopsy Centre Add- 117/22 Sarvodaya Nagar Kanpur

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#### Introduction

With the Performance Qualification we assure that HumaStar 100/200/300SR/600 will work under real life conditions (in the lab of the customer) according Human specifications.

All assays the customer is supposed to use should be checked during this test. The PQ can be done during the end user training or ahead in the laboratory of the customer.

For each test calibration, QC (two levels) and precision should be measured and analysed to check if the results are in the specification of Human.

If non Human reagents are used, the Performance Qualification should be done with Human reagents according the IFU (using Human calibrator and QC material)



#### 1. Special materials

- Wash additive (18971) All HumaStar Systems
- Special wash solution (18974) HS 100/200
- Special wash solution-2 (18974/2) HS 300SR
- Cuvette Clean (16663/20) HS 600
- 0.9% NaCl solution HS 100/200
- Diluent (16663/10) HS300SR/600

#### 1.1. Customer using Human reagents

All reagents, calibrator and QC material which the customer has chosen for the routine.

#### 1.2. Customer using non Human reagents

- AutoCal (Ref 13160)
- Serodos (Ref 13951)
- HumaTrol P (Ref 13512)
- GLUCOSE liquicolor reagent (Ref 10121 HS 100/200; Ref 10260300 HS 300SR/600)
- CALCIUM liquicolor reagent (Ref 10011 HS 100/200; Ref 10011300 HS 300SR/600)
- GOT (ASAT) IFCC mod. liquidUV (Ref 12211 HS 100/200; Ref 12021300 HS 300SR/600)

#### 2. Accompanying documents

- A) User Manuals (last revision, please check Human web page)
- B) Application sheets (on the PC)
- C) Package inserts (in the kits)

#### 3. Performance quality checks

Step	Check	Expected result	Result	Final remark
1	Maintenance (perform all user maintenance)	All maintenance tasks finish without an error	DONE	OKAY
1	Calibration	Calibration factors should be in the specified range	IN RANGE	DONE
2	Quality Control	Both QC samples should be in range given by Human	IN RANGE	DONE



Step	Check	Expected result	Result	Final remark
3	Precision (n= 20), a Qc sample can be used	The CV in % for each test should be in the specified range	In all text < cv=3.1%	OKAY

#### 4. Documentation

Please document all results in an additional document (excel file).

#### 5. Calculation of the CV

Evaluate the results as following: 
$$mean = \sum_{i=1}^{10} sample i$$
 
$$SD = \sqrt{\frac{\sum_{i=1}^{10} (sample i - mean)^2}{9}}$$
 
$$CV\% = \frac{SD*100}{mean}$$
 Easy to calculate in an EXCEL sheet using the appropriate formulas. See also example below

#### 6. Example for calculations in EXCEL

12	A	В	C	D
1		target	min.	max.
2	Serodos	8,33	7,41	9,24
3				
4	sample 1	8,4		
5	sample 2	8,3		
6	sample 3	8,5		
7	sample 4	8,0		
8	sample 5	8,2		
9	sample 6	8,2		
10	sample 7	8,4		
11	sample 8	8,2		
12	sample 9	9,3		
13	sample 10	8,4		
14	mean	8,4		
15	SD	0,35		
16	CV%	4,18		
17	single value <> 20% mean?	0		
18	mean within reference range?	yes		
19	CV% < 5%?	yes		



Cell	Function
A14	=AVERAGE(B4:B13)
A15	=STDEV(B4:B13)
A16	=B15*100/B14
A17	=COUNTIFS(B4:B13,"<"&(B14-(B14*0.2)))+COUNTIFS(B4:B13,">"&(B14+(B14*0.2)))
A18	=IF(ISNUMBER(B4)=FALSE,"",IF(B14>\$D\$2,"no",IF(B14<\$C\$2,"no","yes")))
A19	=IF(ISNUMBER(B4)=FALSE,"",IF(B16<=5,"yes","no"))



Lab Manager (signature)

Neclin Seul

#### 7. Closure

Study data has determined that the system described in this document meets all criteria outlined in this Performance Qualification protocol. All exceptional conditions if any have been addressed. The system is ready for specific usage.

The analyzer passed the performance quality check.  The analyzer didn't pass the performance quality check (see additional notes).						
	System	☐ HumaStar 100  ☐ HumaStar 200 ☐ HumaStar 300 SR ☐ HumaStar 600	Serial Number: 21191146004 SW Version: 0.44.2.15 Setting-Database Version: 1.36			
	Date 30-NOV-2019	Service engineer / Application Specialist (printed name)  MUBASHIR WALI	Service engineer / Application Specialist (signature)			

#### 8. Additional notes

Lab Manager (printed name)

**NEELIMA SACHAN** 

Date

30-NOV-2019



# HumaStar 100 HumaStar 200 HumaStar 300SR Installation quality check

#### **Revision list**

Revision	Date	Description	Editor
1	2016/02/26	First revision	Mathias Kamprath
2	2018/06/20	Review and extension to HumaStar 300SR	Mathias Kamprath
3	2019/01/28	Repetition of all calibration steps added	Mathias Kamprath
4	2019/02/22	Serial number field added	Mathias Kamprath

Lab Name Narayan Pathology And Biopsy Centre Add- 117/22 Sarvodaya Nagar Kanpur

#### **Special tools**

Volt meter or multi meter (V and mV). E. g. Human catalog number 60200224

#### **Accompanying documents**

- A) HSB Power Surge Protector & online UPS incl. ground check.pdf
- B) HumaStar 100/200 Service Manual, revision 04/2015/09
- C) HumaStar 300SR Service Manual, revision 01/2018-FEB-09
- D) Touch screen monitor documentation (optional)
- E) Printer documentation (optional)

#### Installation quality check

Step	Check	Expected result	Result	Final remark
		Main power supply		
1	Measure the grounding voltage between neutral and ground of the main power line. See document A).	Less than 2V.	1.3v	OKAY



Step	Check	Expected result	Result	Final remark
2	Connect the power surge protector socket to the main power. If the EU plug doesn't fit use either the UK or the US adapter. See document A).	Green and red LEDs are on.	SUPPLY OKAY	DONE
3	Connect the on-line UPS to one of the power protection sockets and switch on the online UPS. See document A).	The on-line UPS starts charging the battery.  The wrong wiring alarm is off.  Wait for 100% charge of the battery before switching on the analyzer.	CONNECTED	OKAY

Installation of the analyzer,
PC (incl. mouse and keyboard),
external barcode scanner (HumaStar 300SR)
monitor (touch screen optional),
printer (optional)

and bottles for system solution (blue), special wash solution (green), normal waste (red) and special waste (yellow, HumaStar 300SR)

4	Place the analyzer on a work bench.  Remove all transportation protection for the:  • top cover,  • sampling arm(s),  • internal barcode reader cover (HumaStar 100/200),  • wash station top cover (HumaStar 200).	Enough space (150 mm recommended) on the left, rear and right side and approx. 55-60 mm underneath.  The analyzer is horizontally aligned.	ALL DONE	OKAY
5	Place the other electronic components on the right side of the analyzer. (recommended)		PLACED	DONE
6	Place the system solution, special wash solution, normal waste and special waste (HumaStar 300SR) bottles on the left side of the analyzer. (recommended)		PLACED AT BOTTOM	DONE



Step	Check	Expected result	Result	Final remark
7	Establish all connections.	As described in document B) "2.3.5 Installation" (HumaStar 100/200) or document C) "3.3.5 Installation" (HumaStar 300SR).	ESTABLISHED	DONE
8	Switch on the analyzer.	The inner plate shakes three times, the peristaltic pump 7 (and 9, HumaStar 300SR) turn for a second and the pinch valve(s) switch on and off.	SWITCHED ON	DONE
9	Connect the external barcode scanner (HumaStar 300SR) to the PC.		N/A	N/A
10	Switch on the monitor and the PC.	Log on as "Support" user.  If not pre-installed, install the HI software as described in document B) "18 HI Software installation/update" (HumaStar 100/200) or document C) "8 HI Software installation" (HumaStar 300SR).	SWITCHED ON INSTALLED HI	DONE
11	Touch screen monitor and printer only.	If not pre-installed, install the driver(s) as described in the accompanying documentation D) and E).	N/A	N/A
12	Start the HI program as "Installer".	Analyzer connects to the HI software.	STARTED	DONE
13	Go to the Terminal program and repeat all calibration steps.  HS100/200: 21 steps  HS300SR: 39 steps	to be finished successfully.		DONE



Revision 4

#### Closure

Serial number of the analyzer: 2 1 1 9 1 1 4 6 0 0 4 The analyzer passed the installation quality check. The analyzer didn't pass the installation quality check. Note the next steps to get the analyzer in condition to pass the installation quality check. Date Service engineer (printed name) Service engineer (signature) fleval. 30-NOV-2019 MUBASHIR WALI

#### 1. Additional notes



### HumaStar 100 HumaStar 200 HumaStar 300SR Operation quality check

#### **Revision list**

Revision	Date	Description	Editor
1	2016/02/26	First revision	Mathias Kamprath
2	2016/03/02	SD formula and EXCEL example changed	Mathias Kamprath
3	2018/06/20	Review and extension to HumaStar 300SR	Mathias Kamprath
4	2019/02/22	Serial number field added	Mathias Kamprath

# Lab Name Narayan Pathology And Biopsy Centre Add- 117/22 Sarvodaya Nagar Kanpur

#### **Special materials**

- Wash additive (18971)
- Special wash solution (18974)
- 0.9% NaCl solution
- Serodos control (13951)
- HumaTrol P control (13512)
- AutoCal multi-calibrator (13160)
- Glucose liquicolor reagent
- · Calcium liquicolor reagent

#### **Accompanying documents**

- A) HumaStar 100/200 User Manual, revision 02/2013-03
- B) HumaStar 100/200 Service Manual, revision 04/2015/09
- C) HumaStar 300SR User Manual, revision 02/2017-11
- D) HumaStar 300SR Service Manual, revision 01/2018-FEB-09



#### **Operation quality check**

Step	Check	Expected result	Result	Final remark
1	Prepare the system solution, the special wash solution and the dilution bottles.	PREPARED	OKAY	DONE
2	Switch on the analyzer and run the start-up procedure.	No error messages.  All cuvettes shown in green in HI > Maintenance > reaction cuvettes (HumaStar 100/200) or HI > Maintenance > Special > Reaction cuvettes (HumaStar 300SR].	NO MESSAGE ALL GREEN	DONE
3	Prepare the AutoCal multi- calibrator and the two controls Serodos and HumaTrol.	Place a cup of AutoCal, Serodos and HumaTrol on the sample tray.	PREPARED & PLACE	DONE
4	Prepare the Glucose and/or GOT and/or Calcium reagent(s).  GLU & GOT	Place the reagent bottle(s) on the reagent tray and run the level check. All volumes have to be recognized.	PLACED & CHECKED THE LEVEL	DONE
5	Use Serodos as sample material.	Place a cup of "sample" material on the sample tray.  When all tests are to be performed, better place two cups on the sample tray.	PLACED 2 CUPS	DONE
6	Generate a work list.	Per reagent the "sample" material has to be tested 10 times.	PLACED THE SAMPLE	DONE
7	Run the work list.		RUN	DONE



Step	Check	Expected result	Result	Final remark
8	Evaluate the results as following: $mean = \sum_{i=1}^{10} sample i$ $SD = \sqrt{\frac{\sum_{i=1}^{10} (sample \ i - mean)^2}{9}}$ $CV\% = \frac{SD*100}{mean}$ Easy to calculate in an EXCEL sheet using the appropriate formulas. See also 6. Example for calculations in EXCEL.	The mean of all ten "sample" results has to be in the reference range of the Serodos control.  The CV% has to be less than 5%.  Only one "sample" result may deviate more than +/- 20% from the mean.  The mean and the SD of the remaining nine results have to be recalculated.	GLU CV= 2.5% SGOT CV= 1.8%	OKAY



#### Closure

Serial number of the analyzer: 2 1 1 9 1 1 4 6 0 0 4 The analyzer passed the operation quality check. The analyzer didn't pass the operation quality check. Note the next steps to get the analyzer in condition to pass the operation quality check. Service engineer (signature) Date Service engineer (printed name) 30-NOV-2019 MUBASHIR WALI

#### **Additional notes**



#### **Example for calculations in EXCEL**

	A	В	C	D
1		target	min.	max.
2	Serodos	8,33	7,41	9,24
3				
4	sample 1	8,4		
5	sample 2	8,3		
6	sample 3	8,5		
7	sample 4	8,0		
8	sample 5	8,2		
9	sample 6	8,2		
10	sample 7	8,4		
11	sample 8	8,2		
12	sample 9	9,3		
13	sample 10	8,4		
14	mean	8,4		
15	SD	0,35		
16	CV%	4,18		
17	single value <> 20% mean?	0		
18	mean within reference range?	yes		
19	CV% < 5%?	yes		

Cell	Function
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A15	=STDEV(B4:B13)
A16	=B15*100/B14
A17	=COUNTIFS(B4:B13,"<"&(B14-(B14*0.2)))+COUNTIFS(B4:B13,">"&(B14+(B14*0.2)))
A18	=IF(ISNUMBER(B4)=FALSE,"",IF(B14>\$D\$2,"no",IF(B14<\$C\$2,"no","yes")))
A19	=IF(ISNUMBER(B4)=FALSE,"",IF(B16<=5,"yes","no"))





# **Training Certificate**

This is to certify that

Ms Smriti Gupta Has been trained on

#### Humastar 200

Model of Humastar 200 Biochemistry Analyzer The training was conducted by Product Experts

#### Narayan Pathology & Biopsy Centre

117/22, Sarvodya Nagar Opp J.L RohtagiEye Hospital Near Baba Bhoothnath Ashram Kanpur-208005

Dated: 16-12-2019

Star Human SciencesPvt. Ltd. New Delhi, INDIA -110 005

# **Training Certificate**

This is to certify that

Mr Ranjeet Kumar Has been trained on

#### Humastar 200

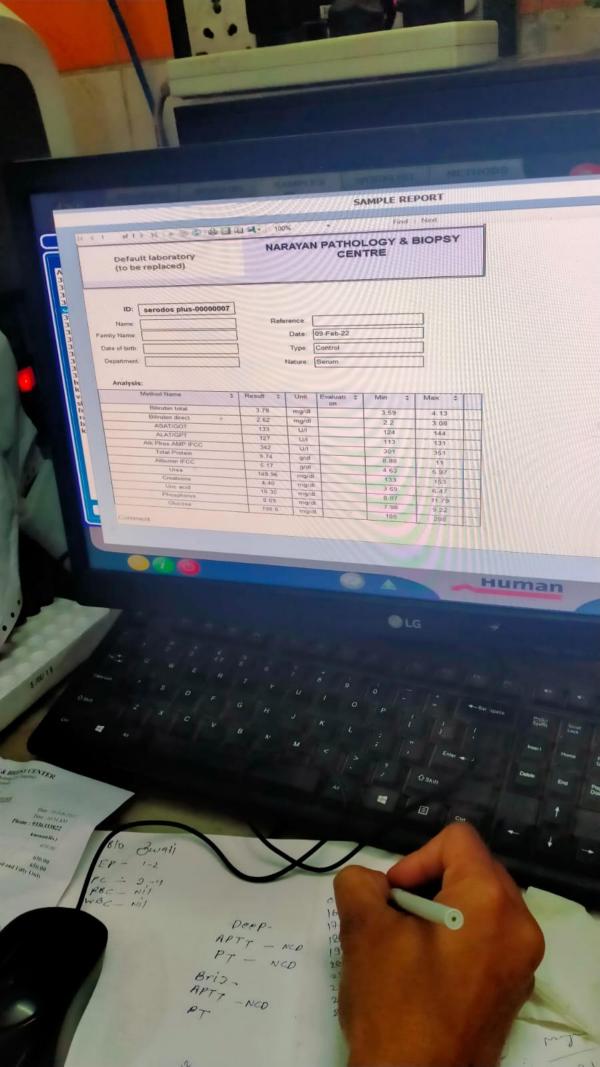
Model of Humastar 200 Biochemistry Analyzer The training was conducted by Product Experts

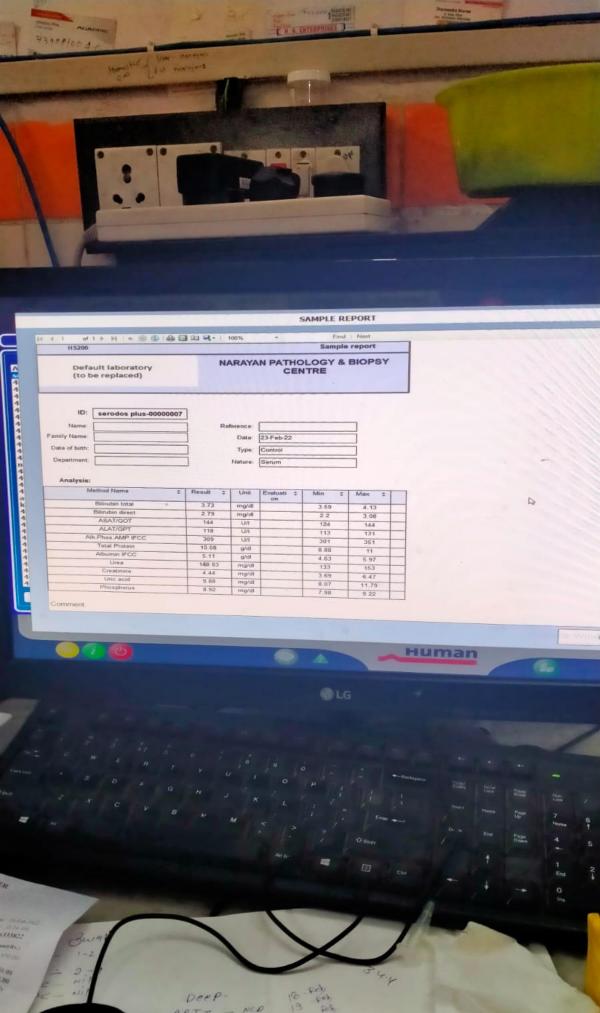
#### Narayan Pathology & Biopsy Centre

117/22, Sarvodya Nagar Opp J.L RohtagiEye Hospital Near Baba Bhoothnath Ashram Kanpur-208005

Dated: 16-12-2019

Star Human SciencesPvt. Ltd. New Delhi, INDIA -110 005

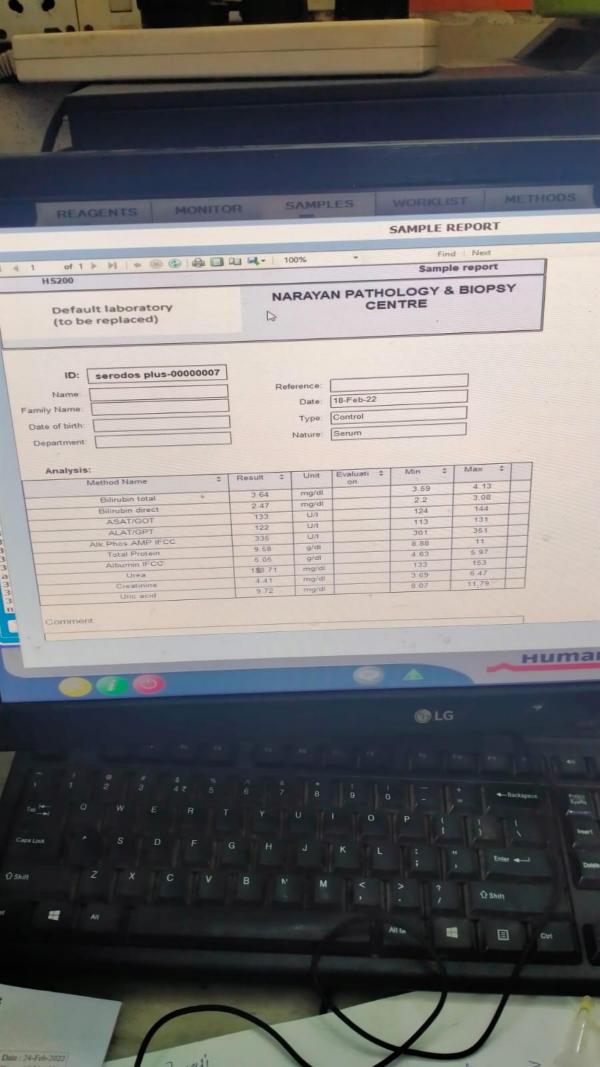


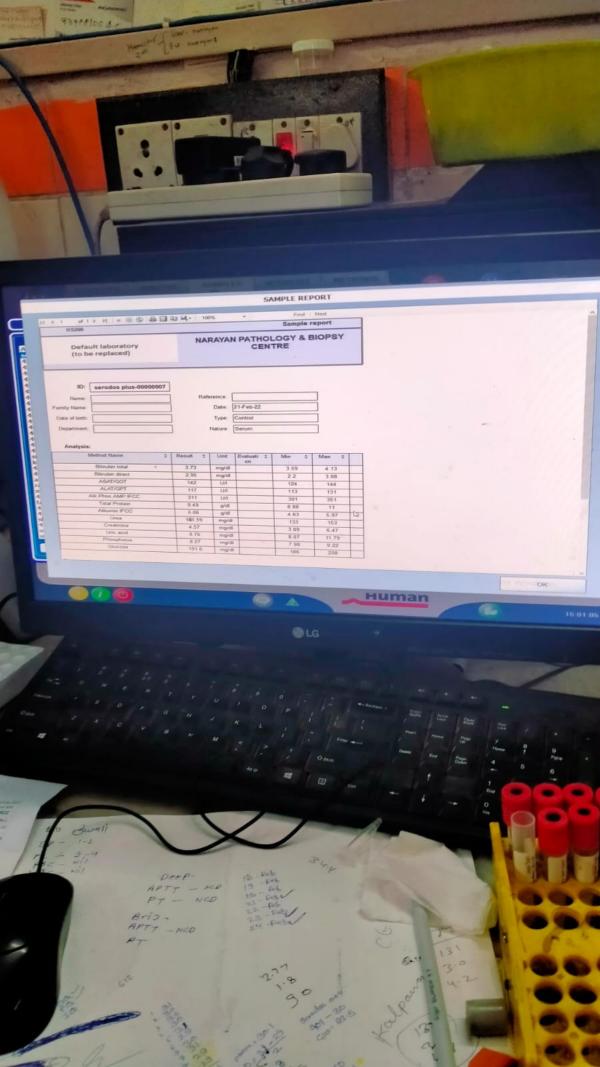


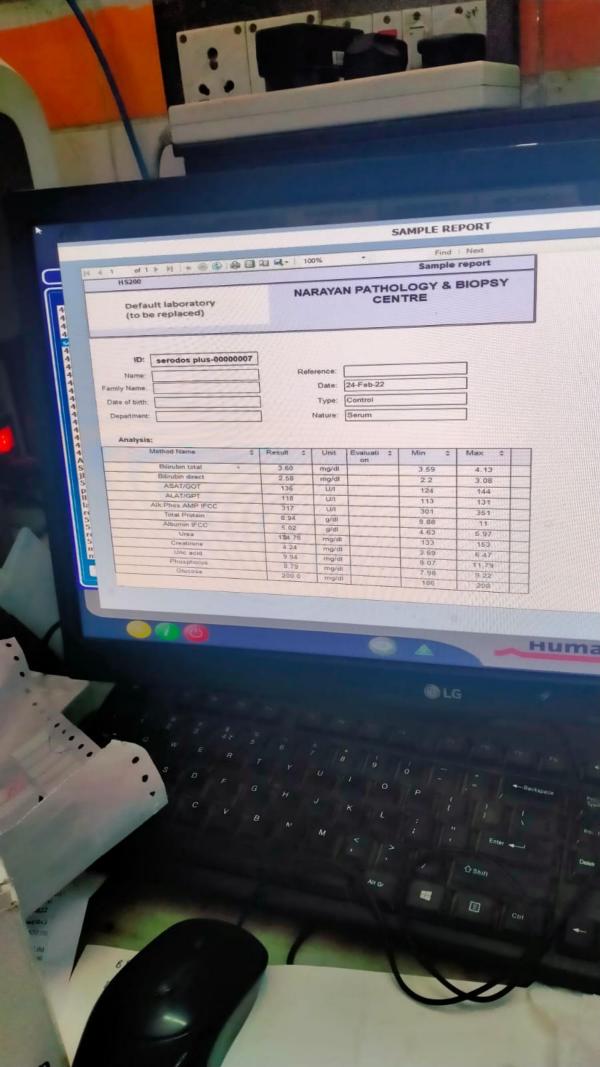
APTT

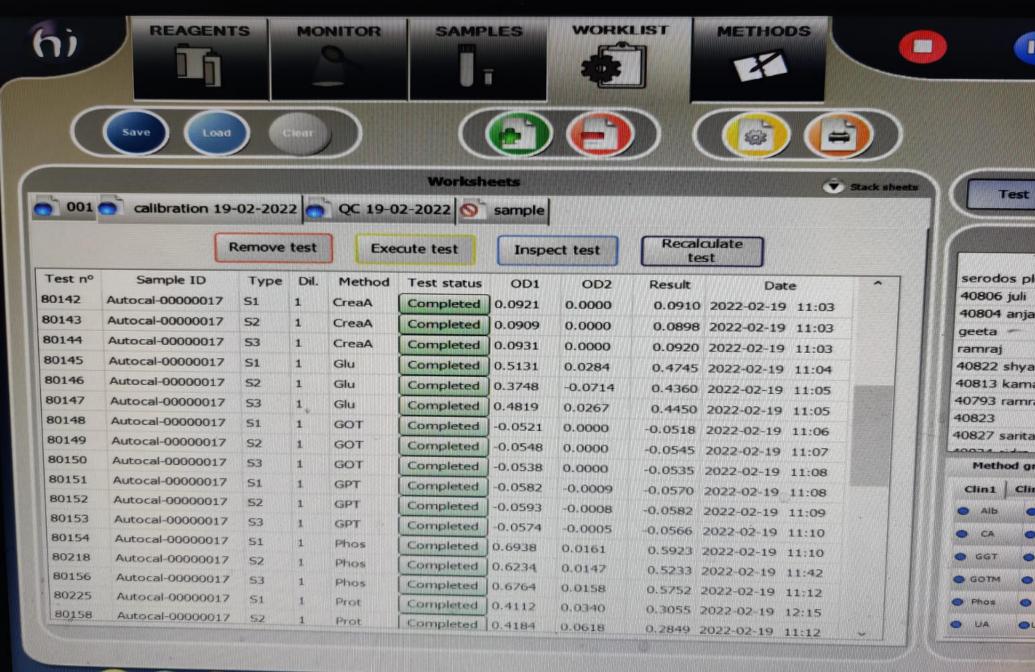
Bris -

NED NCD













Test

Clin

Alb

GGT







001	calibration 19				Ĭ						
		Remove			oute test	Inspec	t test	Recalc			
Test no	Sample ID	Туре	Dil.	Method	Test status	OD1	OD2 0.0340	Result 0.3055	Date 2022-02-19		•
80225	Autocal-00000017	51	1	Prot	Completed	0.4112	0.0618	0.2849	2022-02-19	11:12	
80158	Autocal-00000017	S2	1	Prot	Completed	0.4252	0.0644	0.2891	2022-02-19	11:13	
30159	Autocal-00000017	53	1	Prot	Completed	0.5815	0.0040	0.5099	2022-02-19	11:14	
80160	Autocal-00000017	S1	1	Trig	Completed	0.5805	0.0032	0.5097	2022-02-19	11:14	
80161	Autocal-00000017	52	1	Trig	Completed	0.5655	0.0049	0.4930	2022-02-19	11:15	
80162	Autocal-00000017	53	1.	Trig	Completed	0.2185	0.0343	0.1630	2022-02-19	11:15	
80163	Autocal-00000017	51	1	UA	Completed	0.2082	0.0247	0.1623	2022-02-19	11:15	
80164	Autocal-00000017		1	UA	Completed	0.2131	0.0262	0.1657	2022-02-19	11:16	and the same of
80165	Autocal-00000017		1	UA	Completed	4	0.0000	-0.0981	2022-02-19	11:16	
80166	Autocal-0000001		1	UreaUV	Completed	-0.0974	0.0000	-0.0922	2022-02-19	11:16	
80167	Autocal-0000001		1	UreaUV	Completed	-0.1120	0.0000	-0.1068	2022-02-19	11:59	
80223	Autocal-0000001		1	Alb	Completed	4	0.0973	2.77	2022-02-19	11:25	(p)
80195	geeta		1	Glu	Completed	4	0.0601	243.2	2022-02-19	11:25	
80196	geeta	U	1 1	Prot	Completed		0.0519	4.31	2022-02-19	11:25	
80197	geeta	-\n'	1	Glu	Completed	-	0.0582	140.3	2022-02-19	11:33	
80199		72	1	Prot	Completed	-	0.0541	0.95	2022-02-19	11:45	~

















Remove test Execute test Inspect test Recalculate test No Meth. code Dilution OD1 OD2 Result Test status 82214 Bilta Date 0.0741 0.0043 3.61 Completed 82215 2022-03-02 07:23 Bilda 1 0.2708 0.1879 2.22 Completed 2022-03-02 06:58 82216 GOT 1 -0.05140.0000 130 Completed 2022-03-02 06:59 82217 GPT 1 -0.0605 -0.0014121 Completed 2022-03-02 06:59 82218 APAMP 1 0.0582 0.0000 315 Completed 2022-03-02 06:59 82219 Prot 1 0.4139 0.0488 9.19 Completed 2022-03-02 07:00 82220 Alb 1 1.4822 0.1546 5.48 Completed 2022-03-02 07:00 82221 UreaUV 1 -0.11490.0000 142.82 Completed 2022-03-02 07:01 82222 CreaA 0.1031 0.0000 5.48 Completed 2022-03-02 07:01 82223 UA 1 0.2264 0.0208 11.45 Completed 2022-03-02 07:02 82276 Trig 1 0.2855 0.0032 244 Completed 2022-03-02 11:07



Completed

Completed

Test Calibration

	Same	ple I	ist				
	ID		Pos.	I			
Autocal	00000018		59	5			
serodos	plus-000000	007	58	5			
42980 s	hubham		12	5			
saryu =	- 4 - 1		13	5			
saurabh			14	5			
42991	42991						
42988			16	S			
42989 r.	k		17	S			
42986 p	ramila		18	S			
42999 n	arrendra		19	S			
LA3003 -	-		20	5			
Metho	od groups	-	4etho	d			
Clin1	Clin2 Turi	bi					
<ul><li>Alb</li></ul>	● APAMP	•	Bilda				
• CA	• Chol	•	HOLE				
• GGT	GGTER	•	Glu				
Section 2	• GGTER		HDL	-			

UreaUV



42956 radha

BLANK 1

N

GOT

CreaA

Diluent

82453

82455

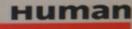


1.4951

0.0000

-0.0003

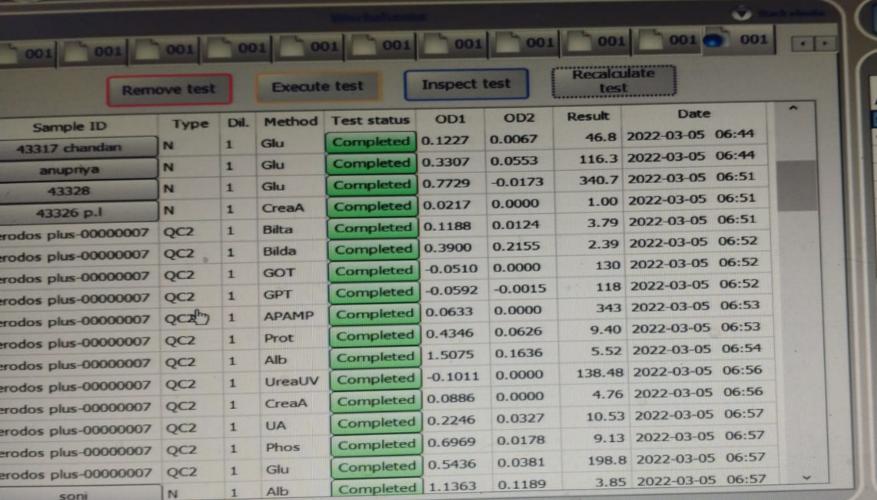
0.0167



-0.0003 2022-03-03 07:22

0.67 2022-03-03 08:05





Test Calibration

ID	Pos
Autocal-0000018	59
serodos plus-00000007	58
42980 shubham	12
saryu	13
saurabh	14
42991	15
42988	16
42989 r.k	17
42986 pramila	18
42999 narrendra	19
42002	20
Method groups	Met

		-
O Alb	○ APAMP	O Bili
• CA	o Chol	• CH
• GGT	GGTER	• G
• GOTM	● GPT	• н
O Phos	Prot	• TI
- 110	OUreaUV	

Clin1 Clin2 Turbi











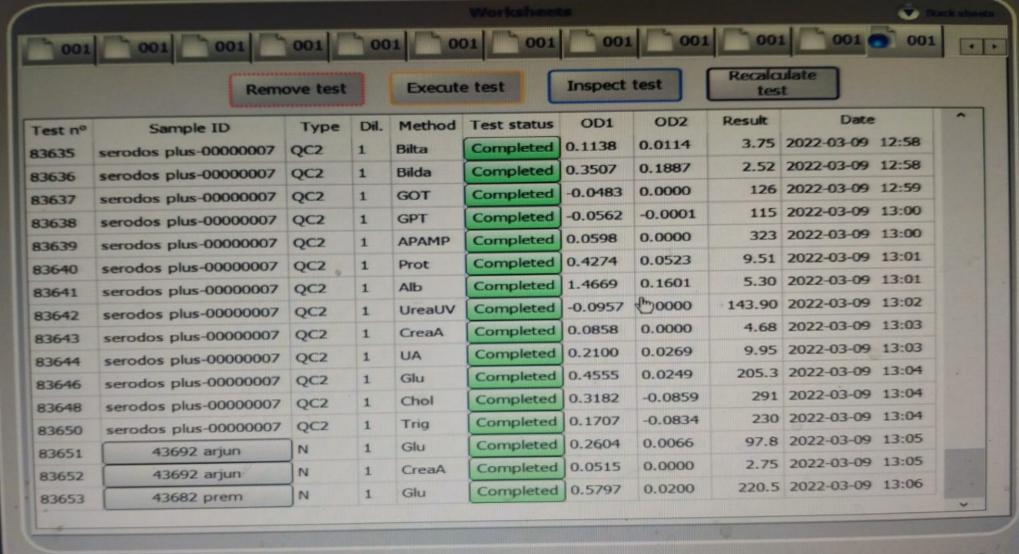
		ernove test	Execu	te test	Inspect test	Recalcula	
N°	Meth. code	Dilution	OD1	OD2	Result	Test status	Date
			0.1162	0.0121	3.70	Completed	2022-03-06 09:12
3263	Bilda	1	0.3483	0.1846	2.24	Completed	2022-03-06 09:12
3264	GOT	1	-0.0506	0.0000	131	Completed	2022-03-06 09:13
266	APAMP	1	0.0650	0.0000	351	Completed	2022-03-06 09:14
267	Prot	1	0.4241	0.0602	9.15	Completed	2022-03-06 09:14
268	Alb	1	1.4674	0.1581	5.33	Completed	2022-03-06 09:15
269	UreaUV	1	-0.1106	0.0000	137.23	Completed	2022-03-06 09:15
270	CreaA	1	0.0962	0.0000	5.22	Completed	2022-03-06 09:16
271	UA	1	0.2126	0.0269	10.28	Completed	2022-03-06 09:17
272	Phos	1	0.7010	0.0207	9.06	Completed	2022-03-06 09:17
273	Glu	1	0.5334	0.0347	196.1	Completed	2022-03-06 09:11
295	GPT	1	-0.0571	-0.0001	119	Completed	2022-03-06 10:27

Activate Windows
Go to Settings to accurate

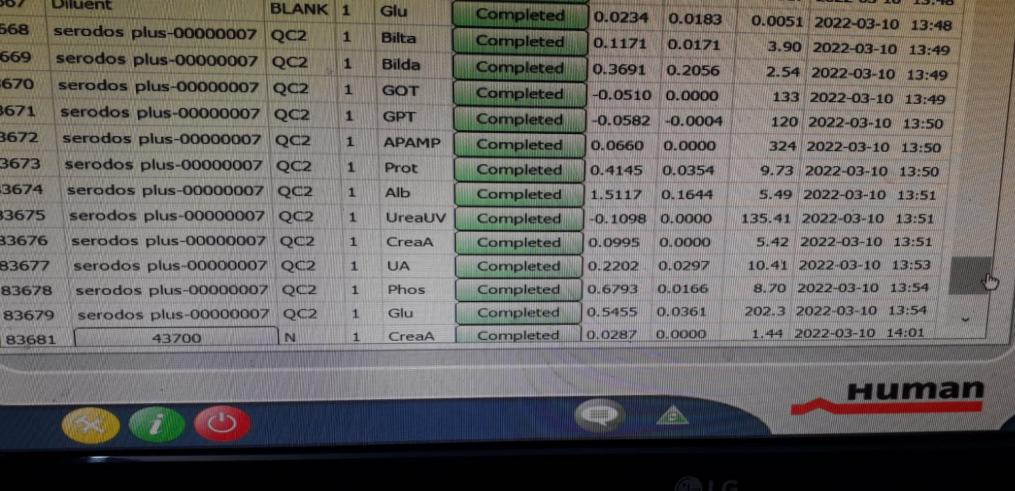
		Remove test	Execu	ite test	Inspect test	Recalcula	ate test	
No	Meth. code	Dilution	OD1	OD2	Result	Test status	Date	^
83380	CreaA	1	0.0962	0.0000	5.23	Completed	2022-03-07 12:13	
83381	UA	1	0.2163	0.0289	10.18	Completed	2022-03-07 12:13	
83383	Bilta	1	0.1162	0.0155	3.59	Completed	2022-03-07 12:14	
83384	Bilda	1	0.3378	0.1793	2.48	Completed	2022-03-07 12:29	
83385	GOT	1	-0.0487	0.0000	125	Completed	2022-03-07 12:14	
83386	GPT	1	-0.0562	0.0000	116	Completed	2022-03-07 12:14	
83387	APAMP	1	0.0639	0.0000	345	Completed	2022-03-07 12:15	A
83388	Prot	1	0.4101	0.0374	9.43	Completed	2022-03-07 12:15	ATTE
83389	Alb	1	1.4774	0.1614	5.37	Completed	2022-03-07 12:16	A
83390	Glu	1	0.5311	0.0361	195.8	Completed	2022-03-07 12:16	A
83395	UreaUV	1	-0.0967	0.0000	144.70	Completed	2022-03-07 12:32	
92262	Pilto		0.1163	0.0101	2 70	Campleted	2022-03-07 12.32	

Human





Human





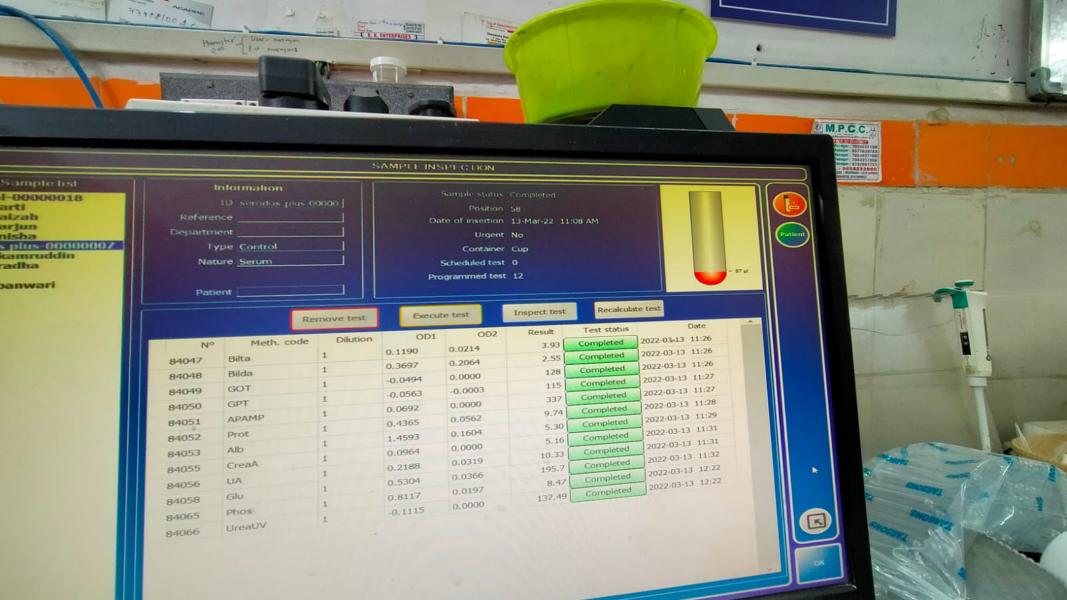


	R	ernove test	Execute test		Inspect test	Recalculate test				
N° 83851	Meth. code Bilta	Dilution 1	OD1 0.1182	OD2	Result	Test status				
33852	Bilda	1	0.3683	0.0210	3.90	Completed	2022-03-12 11:18			
33853	GOT	1		0.2096	2.50	Completed	2022-03-12 11:18			
3854	GPT	1	-0.0493	0.0000	129	Completed	2022-03-12 11:19			
33855	APAMP	1	-0.0538	-0.0010	110	Completed	2022-03-12 11:20			
33856	Prot		0.0608	0.0000	297	Completed	2022-03-12 11:20			
33857	Alb	1	0.4104	0.0531	8.92	Completed	2022-03-12 11:20			
33858	UreaUV	1	1.4526	0.1584	5.27	Completed	2022-03-12 11:21			
3859	CreaA		-0.1130	0.0000	135.80	Completed				
3861	UA		0.0942	0.0000	5.11	Completed	2022-03-12 11:22			
33863	Phos		0.2158	0.0283	10.29	Completed	2022-03-12 11:22			
33865	Glu	1	0.3097	0.0267	0.64	Completed	2022-03-12 11:23			
	1.50	1	0.4921	0.0300	182.2	Completed	2022-03-12 11:24			
							2022-03-12 11:24			

Activate Windo

OK





Parametro / Parametre	applicable for	Si Unit	Mean	Range			Range
Method / Methode / Método/ Méthode	applicable for / anwendbar für / aplicable por /	si Einheit	Mittelwest	Bereich	Unit	Mean	Bereich
		Unided 53	Media Moyenne	Panen	Einheit	Anittelwer's Anittelwer's	Rango
GOT (ASAT) IFCC mod. liquiUV	Humatean Analyses AUTOCAL LOT 0017	Unité St	-	Plage de valeurs	United United	Moyerne	plage de vales
Enzymatic, 37°C, IFCC without PSP	Humatras analyzes AUTOCAL LOT 0018	pikat/t	2.23	730 - 738		CONTRACTOR OF THE PARTY OF THE	126 - 143
	Humalyies photometer	µkst/!	2.05	1.97 - 718	Un	134	115 - 131
GPT (ALAT) IFCC mod. liquiUV	HumaStar analyzer AUTOCAL LOT 0017	µkst/!	2.08	1.82 - 2.13	UA	123	109 - 140
Ensymatic, 37°C, IFCC without PSP	Humasia	µkst/l	2.05	1.88 - 230	UA	125	213 - 132
	Humastar analyzer AUTOCAL LOT 0018	jukan/t	1.98	1.77 - 7.70	UA	123	106 - 132
HDL CHOLESTEROL liquicolor	Humalyter photometer	µkart/l	1.02	1.60 - 725	SIR	119	96.1 - 135
Homogenous enzymutic assay	ALTOCAL LOT 0017	mmol/I	3.15	2.69 - 3.62	Un	115	104 - 140
	ALITOCAL LOT 0018	mmol/I	2.61	2.24 - 3.09	mg/si	122	
HDL CHOLESTEROL	for Kit calibrator only	mmol/l	2.77	2.43 - 3.10	mys	101	-
Precipitation method	Humalyzer photometer	mmol/I	3.31	2.92 - 3.72	my/6	107	-
IRON figuicolor					mg/di	128	113 - 144
CAS	HumaStar analyzer AUTOCALLOT 0017	µmol/l	52.1		48/d1	291	211 - 370
	HumaStar analyzer AUTOCAL LOT 0018	µmol/ī	50.8	46.2 - 55.7	10/d1	284	258 - 311
(DON TON)	Humalyzer photometer	µmol/l	39.9	27.2 - 52.6	IPS/dl	223	152 - 294
IRON TPTZ liquicolor	HumaStar analyzer AUTOCAL LOT 0017	µmol/1	54.4	49.9 - 59.1	18/191	304	279 - 330
	HumaStar analyzer AUTOCAL LOT 0018	µmol/1	53.2	49.9 - 56.6	HE/OI	297	
MMUNOGLOBULINS direct IgA	Humalyzer photometer	µmol/1	51.7	45.3 - 58.2	18/d1	289	279 - 316
Immunoturbidimetry	HumaStar analyzer, HumaLyzer photometer		2.58	2.28 - 2.88	mg/di		253 - 325
MMUNOGLOBULINS direct IgG mmunoturbidimetry		g/I	4.30		901	258	228 - 288
SHORTHELTY.	HumaStar analyzer, Humalyzer photometer	g/1	12.3	9.83 - 14.8	mg/dl	1234	983 - 14
MMUNOGLOBULINS direct IgM	HumaStar 600, HumaLyzer 4000		0.86	0.78 - 0.93	mg/dl		
mmunoturbidimetry	HumaStar 100/200/30058,	g/l				85,6	78.2 - 93
	HumaLyzer 2000/3000	g/l	1.16	0.90 - 1.43	mg/dl	115	89.7 - 14
DH SCE mod, liquiUV	HumaStar analyzer AUTOCAL LOT 0017	µkat/l	11.6	10.4 - 12.8	U/I	696	625 - 76
Substrate Pyruvate, 37°C, SCE	HumaStar analyzer AUTOCAL LOT 0018	ukat/l	11.3	10.3 - 12.2	U/I	676	
	HumaLyzer photometer	ukat/l	11.3	9.42 - 13.2	U/I	677	619 - 73
DL CHOLESTEROL liquicolor	AUTOCAL LOT 0017	of Contractor and Con	4.22	2.82 - 5.64	mg/dl	163	365 - 79
iomogenous enzymatic assay	AUTOCAL LOT 0018	mmol/I			mg/dl	177	109 - 21
	Kit calibrator	mmol/1	4.58				118 - 23
		mmol/l	4.78	3.62 - 5.95	mg/dl	185	140 - 23
IPASE liquicolor substrate Methylresorufin, 37°C	LOT 21001 and higher: AUTOCAL LOT 0017	μkat/l	1.39	1.25 - 1.53	U/I	83.5	75.0 - 9:
	LOT 21001 and higher: AUTOCAL LOT 0018	µkat/l	1.21	1.05 - 1.37	U/I	72.5	62.9 - E
	up to LOT 20010: AUTOCAL LOT 0017 and 0018	μkat/l	1.09	0.81 - 1.38	U/I	65.5	48.4 - 8
AGNESIUM liquicolor	HumaStar analyzer AUTOCAL LOT 0017	mmol/l	1.30	1.16 - 1.43	mg/dl	3.15	2.83 - 3
rlidyl blue	HumaStar analyzer AUTOCAL LOT 0018	mmol/l	1.24	1.07 - 1.41	mg/dl	3.01	2.59 - 1
	Humalyzer photometer	mmol/l	1.34	1.21 - 1.47	mg/dl	3.25	2.93 -
INCREAS-AMYLASE liquicolor	AUTOCAL LOT 0017	μkat/l	2.98	2.80 - 3.15	U/1	179	168 -
5-G7, 37°C	AUTOCAL LOT 0018	µkat/l	2.57	2.35 - 2.77	U/I	154	
	HumaStar analyzer AUTOCAL LOT 0017	mmol/I	2.78	2.62 - 2.94		The state of the s	141 -
OSPHORUS liquirapid Olybdate (UV)	HumaStar analyzer AUTOCAL LOT 0018	mmol/l	2.85		mg/dl	8.61	8.10 -
Symmic (OA)	Humalyzer photometer		0.0000000000000000000000000000000000000	2.63 - 3.07	mg/dl	8.83	8.14 -
tassium		mmol/I	2.77	2.44 - 3.11	mg/dl	8.59	7.55 -
direct	HumaStar 600, HumaLyte	mmol/l	6.30	5.91 - 6.69	mval/I	6.30	5.91 -
TASSIUM liquiUV rymatic	HumaStar analyzer, HumaLyzer photometer	mmol/l	6.46	5.57 - 7.34	mval/l		5.57 -
lium	HumaStar 600, Humalyte	mmol/I	160	155	10000000		2.37
DIUM liquicolor	HumaStar analyzer, HumaLyzer photometer	mmol/l	160	155 - 165	mval/l	160	155 -
ymatic DIUM RAPID		mmol/I	151	131 - 171	mval/l	151	131 -
ipitation method	HumaLyzer photometer	mmol/I	134	106 - 161	mval/l	134	106 -
aturation etermination using IRON TPTZ liquicolor	HumaStar analyzer	µmol/l	105	87.0 - 123	µg/dl	588	486 -
and the second s	HumaStar analyzer AUTOCAL LOT 0017	g/1	91.2	86.1 - 96.2	or fall		
AL PROTEIN liquicolor	HumaStar analyzer AUTOCAL LOT 0018		100.0		g/dl	9.12	8.61 -
d	Humalyzer photometer	g/l			g/dl	10.0	9.44 -
THE RESIDENCE OF THE PARTY OF T	HumaStar analyzer AUTOCAL LOT 0017,	g/I	93.9	85.3 - 102	g/dl	9.39	8.53
YCERIDES liquicolor GPO	Humalyzer photometer	mmol/l	2.68	2.29 - 3.07	mg/dl	235	201 -
liquicolor	HumaStar analyzer AUTOCAL LOT 0018	mmol/l	2.74	2.51 - 2.98	mg/dl	240	220 -
elot mod.	Humalyzer photometer.	mmol/I	23.6	20.0 - 27.3	mg/dl	THE RESERVE	120 -
liquiUV	HumaStar analyzer AUTOCAL LOT 0017, HumaLyzer photometer	mmol/l	23.8	22.1 - 25.6	mg/dl	143	133 -
· (VV)	HumaStar analyzer AUTOCAL LOT 0018	mmol/l	22.3	20.8 - 24.0	male.	131	
CID liquicolor <sup>plus</sup>	Humalyzer photometer	-	636		mg/di	-	125 -
CID IIQUICION		µmol/l			mg/di	10.7	8.74 -
	HumaStar analyzer AUTOCAL LOT 0017 and 0018	µmol/I	607	556 - 660	mg/d	10.2	9.35 -
SID Hautsplat	HumaStar analyzer AUTOCAL LOT 0017	µmol/I	569	491 - 648	mg/di		8.25 -
CID liquicolor	HumaStar analyzer AUTOCAL LOT 0018	µmol/I	613	504 - 720	mg/d	The second second	8.47 -
	HumaLyzer photometer	THE R. P. LEWIS CO., LANSING, MICH.			The state of the s		

905 | walld of 13.08.2023 F15382 - Version 5/07 - 2021



REF 13152 Target Values / Soliwerte / Valores Asignados / Valeur

2024-08-27

Tanger Canada	strados/ Valeurs Cibles				Silve Nor to	test werelow of	target value sheet:
Reagent name / deagen/beseichn	ung/	St Unit	Mean				get-value-sheets/
Parametro / Parametre Method / Methode / Metodo/ Me	"Pplicable for / non-nathur file / aplicable por /	Se Etribuie	Mittelwert	Exting	Unit	Mean	Range
	applicable pour	Unided St Unité St	Media	Rereich Eargo	Cinheit	Mitselwert	Sernich
HUMAN reagent Aits		The state of the s	Moyenne	Plage de valeurs	Unided	Media Moyenne	Rango Plage de valeurs
ACID PHOSPHATASE		-			OTHER	moyene	And the State of t
a Naphthy(phosphate, Hillmann mod	AUTOCAL LOT DOLF	phat/i	0.26	0.19 - 0.33			
ALBUMIN liquicolor	AUTOCAL LOT COLIS	µkat/i	0.28	0.74	un	15.3	11.6 - 18.9
Bromcresol green	HumaStar analyses AUTOCALLOT 0017 and 0018	1/3	54.3	40.4	U/I	16.5	145 - 185
	Humatyzer photometer	8/1	50.2	145	8/41	5.43	4.94 - 5.9%
ALEAUNE PHOSPHATASE Significator	Humastar analyzer AUTOCAL LOT 0037	pkat/t	5.43		8/41	5.00	4.51 - 5.52
	HumaStar analyzer AUTOCAL LOT 0018	µkat/I	4.82		U/I	326	303 - 352
Annual Control of the	Humatyeer photometer	µka1/I	4.68	4.15 - 5.23	u/i	289	257 - 320
DEA Buffer, 37°C GSCC/DSSE Opt. Hquico	Promestar analyzer AUTOCAL LOT 9017	µkat/I	6.35	5.65 - 7.07	U/I	781	249 - 313
DEA Buffer, 37°C, GSCC/DGKC	Constitution and the second	µkat/I	6.70	4.00	1/0	361	339 - 424
	Humatyzer photometer	µkat/I	6.85		Un	402	371 - 433
alpha-AMYLASE liquicolor	Humalyzer 4000, Setting 004H	µkat/I	5.70		U/I	411	350 - 472
CNPG3, 37°C, IFCC	HumaStar analyzer AUTOCAL LOT 0017, HumaLyzer photometer	µkat/I	4.53			342	300 - 384
A DOLUMONDO MA	HumaStar analyzer AUTOCAL LOT 0018	µkat/l		4.07 - 5.02	U/I	272	244 - 301
APOLIPOPROTEIN A1 Immunoturbidimetry	HumaStar analyzer	g/1	4.70	4.25 - 5.13	U/I	282	255 - 308
APOLIPOPROTEIN B	Humalyzer photometer	g/I	1.65	1.25 - 2.06	mg/dl	165	125 - 206
Immunoturbidimetry			1.95	1.74 - 2.16	mg/dl	195	THE RESERVE OF THE PERSON NAMED IN
	HumaStar analyzer, HumaLyzer photometer	g/I	1.35	0.95 - 1.74	mg/di	The second	174 - 216
auto-SILIRUBIN-D liquicolor	ALITOCAL LOT 0017	µmol/l	45.2			135	95.3 - 174
DPD method inquicolor	AUTOCAL LOT 0018	µmol/I	40.7	37.6 - 52.7	mg/dl	2.64	2.20 - 3.08
	Humatyzer 4000	µmol/I	40.7	38.8 - 42.6	mg/dl	2.38	2.27 - 2.49
auto-BILIRUBIN-T liquicolor	AUTOCAL LOT 0017, Humalyzer photometer 4000	µmol/l	66.0	26.7 - 53.5	mg/dl	2.35	1.56 - 3.13
DPD method		1	0.00	61.4 - 70.6	mg/dl	3.86	3.59 - 4.13
BILIRUBIN fiquicolor	AUTOCAL LOT 0018	µmol/I	68.4	63.3 - 73.4	mg/dl	4.00	3.70 - 4.29
BILIRUBIN DIRECT CONTAIN	HumaLyzer photometer HumaLyzer photometer	µmol/l	62.3	50.8 - 73.7	mg/dI	3.64	2.97 4.31
	w/o Humalyzer 4000	µmol/l	65,3	55.2 - 75.4	ma (d)		
Character Chot	Humalyzer 4000	umol/l	60.5	BOOK AND THE REAL PROPERTY OF THE PARTY OF T	mg/dl	3.82	3.23 - 4.41
BILIRUBIN DIRECT/TOTAL liquicolor Determination of Bilirubin direct	Humalyzer photometer			54.0 - 67.0	mg/dl	3.54	3.16 - 3.92
pendrassik-Gróf	HumaStar analyzer AUTOCAL LOT 0017	µmol/I	43.3	34.0 - 52.3	mg/dl	2.53	1.99 - 3.0
CALCIUM liquicolor		mmol/I	3.03	2.83 - 3.23	mg/dl	12.1	11.3 - 12:
Ortho-cresolphthalein	HumaStar analyzer AUTOCAL LOT 0018	mmol/I	3.03	2.85 - 3.23	mg/dl	12.1	11.4 - 12
Chloride	HumaLyzer photometer	mmol/l	3.10	2.95 - 3.23	mg/dl	12.4	11.8 - 12
ISE direct	HumaStar 600, HumaLyte	mmol/I	116	107 - 124	THE RESIDENCE OF	411	379 - 44
	HumaStar analyzer AUTOCAL LOT 0017		124		mg/d1		
CHLORIDE liquicolor	HumaStar analyzer AUTOCAL LOT 0018	mmol/I		117 - 131	mg/dl	440	415 - 46
IPTZ method	Humatyzer photometer Primus only	mmol/I	119	108 - 129	mg/dl	422	383 - 45
		mmol/I	121	105 - 137	mg/di	429	372 - 4
	HurnaLyzer photometer 4000 only	mmol/I	131	116 - 146	mg/dl	464	411 - 5
HOLESTEROL liquicolor	HumaStar analyzer AUTOCAL LOT 0017	mmol/I	8.15	7.03 - 9.26	mg/dl	315	272 - 3
HOD-PAP	HumaStar analyzer AUTOCAL LOT 0018. HumaLyzer photometer	mmol/I	8.48	7.06 - 9.88	mg/dl	328	273 - 3
HOLINESTERASE liquicolor	HumaStar analyzer						
atyrylthiocholine, 37°C, GSCC/DGKC		µkat/I	131	123 - 140	U/I	7880	
NAC activated	HumaLyzer 4000	µkat/l	140	126 - 154	U/I	8400	7566 - 9
zymatic 37°C	Humalyzer photometer	µkat/l	11.9	9.50 - 14.2	U/I	712	570 - 1
	HumaStar analyzer AUTOCAL LOT 9017	μkat/l	13.0			782	
NAC liquiUV	HumaStar analyzer AUTOCAL LOT 0018.			11.9 - 14.1	U/I	782	715
rymatic, 37°C, IFCC	HumaLyzer 4000/Primus	μkat/l	12.0	10.9 - 13.0	U/I	718	656 -
	Humatyzer 2000/3000	μkat/I	10.8	8.50 - 13.1	U/I	64	510 1
o-CREATININE liquicolor	HumaStar analyzer AUTOCAL LOT 0017,			The same of the sa			STATE OF THE PARTY NAMED IN
ė	HumaLyzer photometer	µmol/l	449	350 - 547	mg/c	5.0	8 3.96 - 6
	HumaStar analyzer AUTOCAL LOT 0018	µmol/I	443	419 - 467	mg/e	11 5.0	4.74 - 5
ATININE liquicolor	HumaLyzer photometer	µmol/I	419	371 - 466	mg/		
TININE (enzym) liquicolor	HumaStar analyzer AUTOCAL LOT 0018, w/o HumaStar 600 AUTOCAL LOT 0017	µmol/l	468	429 - 507	mg/		9 4.85 - 5
natic	HumaStar 600 AUTOCAL LOT 0017	µmol/I	425	The state of the s	1000000		ALL DESCRIPTION
	NEW THE PROPERTY OF THE PROPER				mg/		
	Humalyzer 4000	µmol/l	418	349 - 487	mg/	dl 4.7	3 3.95 - 5
	Charles Committee Committe	2 - November 2 2 2	2.25	1.78 - 2.72	U	1 13	5 107 - 1
	HumaStar analyzer AUTOCAL LOT 0017	µkat/l	THE REAL PROPERTY.			CANADA DESCRIPTION	2 128 - 1
na-Glutamyl-3carboxy-4-nitroanilide,	HumaStar analyzer AUTOCAL LOT 0017 HumaStar analyzer AUTOCAL LOT 0018	μkat/l	2.37	2.13 - 2.58	11	/1 14	
na-Glutamyl-3carboxy-4-nitroanilide,		μkat/l	2.37	-	-		The second second
na-Glutamyl-3carboxy-4-nitroanilide,	HumaStar analyzer AUTOCAL LOT 0018 HumaLyzer photometer	μkat/l μkat/l	2.37	1.72 - 2.37	U,	/1 12	3 103 - 1
na-Glutamyl-3carboxy-4-nitroanilide, FCC	HumaStar analyzer AUTOCAL LOT 0018 HumaLyzer photometer HumaStar analyzer AUTOCAL LOT 0017	μkat/l μkat/l mmol/l	2.37 2.05 11.4	1.72 - 2.37 10.7 - 12.0	U,	/I 12 /dI 20	3 103 - 1 5 192 - 1
na-Glutamyl-3carboxy-4-nitroanilide, FCC	HumaStar analyzer AUTOCAL LOT 0018 HumaLyzer photometer	μkat/l μkat/l	2.37	1.72 - 2.37	U,	/l 12 /dl 20 /dl 19	3 103 - 1 5 192 - 1 8 185 - 1
na-Glutamyl-3carboxy-4-nitroanilide, FCC	HumaStar analyzer AUTOCAL LOT 0018 HumaLyzer photometer HumaStar analyzer AUTOCAL LOT 0017	μkat/l μkat/l mmol/l	2.37 2.05 11.4	1.72 - 2.37 10.7 - 12.0	U, mg	/I 12 /dI 20 /dI 19	3 103 - 1 5 192 - 2 8 185 - 2 7 188 - 2
na-Glutamyl-3carboxy-4-nitroanilide, FCC	HumaStar analyzer AUTOCAL LOT 0018 HumaLyzer photometer HumaStar analyzer AUTOCAL LOT 0017 HumaStar analyzer AUTOCAL LOT 0018 HumaLyzer photometer	μkat/l μkat/l mmol/l mmol/l	2.37 2.05 11.4 11.0 11.5	1.72 - 2.37 10.7 - 12.0 10.3 - 11.7 10.4 - 12.5	U, mg	/I 17 /dl 20 /dl 19 /dl 20	3 103 - 1 5 192 - 2 8 185 - 2 7 188 - 2
na-GT liquicolor na-GIutamyl-3carboxy-4-nitroanilide, FCC PSE liquicolor SE liquiUV <sup>mane</sup>	HumaStar analyzer AUTOCAL LOT 0018 HumaLyzer photometer HumaStar analyzer AUTOCAL LOT 0017 HumaStar analyzer AUTOCAL LOT 0018	μkat/l μkat/l mmol/l mmol/l mmol/l	2.37 2.05 11.4 11.0	1.72 - 2.37 10.7 - 12.0 10.3 - 11.7	U, mg	/I 17 /dI 20 /dI 19 /dI 20 /dI 20	3 103 - 1 5 192 - 2 8 185 - 2 7 188 - 2 8 190 - 2

SERODOS Plus

[REF] 13151

Target Values / Soliwerte / Valores Asignados/ Valeurs Cibles

₩ 2024-08-27

Target Values / Solite	anados/ Valeurs Cibles				https://www.	NAME AND POST OF	- Control of the Cont
payment name / seage/u beseichnung	/ Western and the second and anticable por /	SI Unit SI Einheit Unidad SI	Mean Mittelwert Media	Range Bereich Rango	Unit	Mean Mithinert Media	Range Sereich Rango
Method / Web	le Applicable pour	Unité SI	Moyenne	Plage de valeurs	Unité	Moyenne	Plage de valeurs
HUMAN reagent Lits			-	0.10			11.6 - 18.9
ACID PHOSPHATASE a Naphshylphosphate, Hillmann med., 37	AUTOCAL LOT.0017	µkat/1	0.26	0.19 - 0.32	Un	15.3	11.6 - 18.9
	AUTOCAL LOT 0018	µkat/I g/I	54.3	49.4 - 59.1	U/I g/dl	5.43	4.94 - 5.91
ALBLIMIN liquicales	HumaStar analyzer AUTOCAL LOT 0017 and 0018	g/l	50.2	45.1 - 55.2	g/dl	5.07	451 - 5.52
	Humalyzer photometer	µkat/l	5.43	5.02 - 5.87	U/I	326	303 - 352
ALKALINE PHOSPHATASE liquicolor	HumaStar analyzer AL/TOCAL LOT 0017 HumaStar analyzer AL/TOCAL LOT 0018	µkat/I	4.82	4.28 - 5.33	U/I	289	257 - 320
- Contraction of the contraction	Humalway photometer	µkat/l	4.68	4.15 - 5.22	U/I	283	249 - 313
The state of the s	HumaStar analyzer AUTOCAL LOT 0017	µkat/l	6.35	5.65 - 7.07	10/1	381	339 - 424
ALKALINE PHOSPHATASE opt. liquicolor DEA Buffer, 37°C, GSCC/DGKC	HumaStar analyter AUTOCAL LOT 0018	µkat/l	6.70	6.18 - 7.22	U/I	402	371 - 433
- COLOCKE	Humalyzer photometer	µkat/l	6.85	5.83 - 7.87	U/I	411	350 - 472
PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS	Humalyzer 4000, Settling 004H	µkat/l	5.70	5.00 - 6.40		342	300 - 384
alpha-AMYLASE liquicolor CNPG3, 37°C, IFCC	HumaStar analyzer AUTOCAL LOT 0017, HumaLyzer photometer	μkat/I	4.53	4.07 - 5.02	1/1	272	244 - 301
E A SACOLONIO SIGNA	HumaStar analyzer AUTOCAL LOT 0018	µkat/l	4.70	4.25 - 5.13	U/I	282	255 - 308
APOLIPOPROTEIN A1 Immunoturbidimetry	HumaStar analyzer	g/1	1.65	1.25 - 2.06	mg/dl	165	125 - 206
APOLIPOPROTEIN B	Humalyzer photometer	g/1	1.95	1.74 - 2.16	mg/dl	195	174 - 216
Immunoturbidimetry	HumaStar analyzer, HumaLyzer photometer	g/l	1.35	0.95 - 1.74	mg/dl	135	953 - 174
auto-BILIRUBIN-D liquicolor	AUTOCAL LOT 0017	µmol/l	45.2	37.6 - 52.7	mg/dl	2.64	2.20 - 3.08
DPD method	AUTOCAL LOT 0018	µmol/I	40.7	38.8 - 42.6	mg/dl	2.38	2.27 - 2.49
	Humalyzer 4000	µmol/l	40.2	26.7 - 53.5	mg/dl mg/dl	3.86	1.56 - 3.13 3.59 - 4.13
auto-BIURUBIN-T liquicolor DPD method	AUTOCAL LOT 0017, Humalyzer photometer 4000 AUTOCAL LOT 0018	µmol/l	68.4	61.4 - 70.6 63.3 - 73.4	mg/dl	4.00	3.70 - 4.29
BILIRUBIN liquicolor DCA method	Humalyzer photometer	µmol/l	62.3	50.8 - 73.7	mg/dl	3.64	2.97 4.31
BILIRUBIN DIRECT/TOTAL liquicolor	Humalyzer photometer	µmol/I	65.3	55.2 - 75.4	mg/di	3.82	3.23 - 4.41
Determination of Bilinubin total Jendrassik-Gröf	w/o Humalyzer 4000 Humalyzer 4000				-	3.54	3.16 - 3.92
BILIRUBIN DIRECT/TOTAL liquicolor Determination of Bilirubin direct lendrassik-Gróf	Humalyzer photometer	μmol/I	43.3	54.0 - 67.0 34.0 - 52.3	mg/dl mg/dl	2.53	1.99 - 3.00
NAME OF TAXABLE PARTY.	HumaStar analyzer AUTOCAL LOT 0017	mmol/l	3.03	2.83 - 3.23	mg/dl	12.1	11.3 - 12.5
CALCIUM liquicolor Ortho-cresolphthalein	HumaStar analyzer AUTOCAL LOT 0018	mmol/l	3.03	2.85 - 3.23	mg/dl	12.1	11.4 - 12.5
ortho-cresoiphthaless	Humalyzer photometer	mmol/l	3.10	2.95 - 3.23	mg/dl	12.4	11.8 - 12
Chloride SE direct	HumaStar 600, HumaLyte	mmol/l	116	107 - 124	mg/dl	411	379 - 44
	HumaStar analyzer AUTOCAL LOT 0017	mmol/l	124	117 - 131	mg/dl	440	415 - 46
HLORIDE liquicolor	HumaStar analyzer AUTOCAL LOT 0018	mmol/l	119	108 - 129	mg/dl	422	383 - 45
PTZ method	Humalyzer photometer Primus only	mmol/l	121	105 - 137	mg/dl	429	372 - 48
	Humalyzer photometer 4000 only	mmol/I	131	116 - 146	mg/dl	464	411 - 51
HOLESTEROL liquicolor	HumaStar analyzer AUTOCAL LOT 0017	mmol/I	8.15	7.03 - 9.26	mg/dl	315	272 - 35
HOD-PAP	HumaStar analyzer AUTOCAL LOT 0018, HumaLyzer photometer	mmol/l	8.48	7.06 - 9.88	mg/dl	328	273 - 3
OLINESTERASE liquicolor	HumaStaranalyzer	µkat/I	131	123 - 140	U/I	7880	7359 - 8
tyrylthiocholine, 37°C, GSCC/DGKC	Humalyzer 4000	μkat/l	140	126 - 154	U/I	8400	
NAC activated	Humalyzer photometer	µkat/l	11.9	9.50 - 14.2	U/I	712	570 - 8
zymatic, 37°C	HumaStar analyzer AUTOCAL LOT 0017	µkat/l	13.0	11.9 - 14.1	U/I	782	715 8
NAC liquiUV	HumaStar analyzer AUTOCAL LOT 0018,	µkat/I	12.0	10.9 - 13.0	U/I	718	
rymatic, 37°C, IFCC	HumaLyzer 4000/Primus	-		The second second			
	Humalyzer 2000/3000	µkat/I	10.8	8.50 - 13.1	U/I	649	510 7
o-CREATININE liquicolor	HumaStar analyzer AUTOCAL LOT 0017, HumaLyzer photometer	µmol/l	449	350 - 547	mg/d	5.08	3.96 - 6
	HumaStar analyzer AUTOCAL LOT 0018	µmol/l	443	419 - 467	mg/d		1 4.74 - 5
ATININE liquicolor	Humalyzer photometer	µmol/l	419	371 - 466	mg/d		
10000000000	HumaStar analyzer AUTOCAL LOT 0018, w/o HumaStar 600 AUTOCAL LOT 0017	µmol/l	468	429 - 507	mg/d	11 5,25	9 4.85 - 5
TININE (enzym) liquicolor natic	HumaStar 600 AUTOCAL LOT 0017	µmol/l	425	395 - 454	mg/c		1 4.47 - 5
C. Valu	Humalyzer 4000	µmol/l	418	349 - 487	mg/i		
or the trade	HumaStar analyzer AUTOCAL LOT 0017	µkat/l	2.25	1.78 - 2.72		WANTED THE PERSON	
na-GT liquicolor na-Glutamyl-3carboxy-4-nitroanilide,	HumaStar analyzer AUTOCAL LOT 0018	µkat/l	2.37	2.13 - 2.58	The second second		
FCC	HumaLyzer photometer	µkat/l	2.05	1.72 - 2.37		The Real Property lies	Safety and the safety
	HumaStar analyzer AUTOCAL LOT 0017	mmol/I	11.4				THE RESERVE THE PERSON NAMED IN
SE liquicolor	HumaStar analyzer AUTOCAL LOT 0018	mmol/I	11.0		THE RESERVE OF	PARTY STREET	
				10.3 - 11.7		200	
	Humalyzer photometer	mmol/I	11.5	10.4 - 12.5		THE RESERVE	
	HumaStar analyzer AUTOCAL LOT 0017	mmol/l	11.5	10.5 - 12.5	5 mg/	/dl 201	
CE Liquid Purmono		The second second	THE RESERVE TO SERVE	III III III III III III III III III II			
SE liquiUV <sup>mone</sup>	HumaStar analyzer AUTOCAL LOT 0018 HumaLyzer photometer	mmol/l	11.0	10.3 - 11.0	8 mg/	/dl 19	Contract of the last of the la

Reagent name / Reagenzbezeichnung /		Si Unit	Mean	Range		Mean	Range
Parametro / Paramètre	applicable for / anwendbar für / aplicable por / SI		Mittelwert	Bereich	Unit Einheit	Mittelwert	Bereich
Method / Methode / Método/ Méthode	applicable pour	Unidad 51 Unité 51	Media Moyenne	Rango Plage de valeurs	Unidad	Media	Rango stage de valeurs
	Humate	The state of the s	2.23		Unité	Moyenne	NAME OF TAXABLE PARTY.
GOT (ASAT) IFCC mod. liquiUV	HumaStar analyzer AUTOCAL LOT 0017	µkat/l µkat/l	2.05	2.10 - 2.38 1.92 - 2.18	U/I	134	126 - 143
nzymatic, 37°C, IFCC without PSP	HumaStar analyzer AUTOCAL LOT 0018	ukat/I	2.08	1.82 - 2.33	U/I	123	109 - 140
	Humalyzer photometer	ukat/I	2.05	1.88 - 2.20	U/I	125	113 - 132
PT (ALAT) IFCC mod. liquiUV	HumaStar analyzer AUTOCAL LOT 0017	µkat/l	1.98	1.77 - 2.20	U/I	123	106 - 132
nzymatic, 37°C, IFCC without PSP	HumaStar analyzer AUTOCAL LOT 0018	ukat/l	1.92	1.60 - 2.25	U/I	119	96.1 - 135
	Humalyzer photometer	mmoi/I	3.15	2.69 - 3.62	U/I	115	104 - 140
IDL CHOLESTEROL liquicolor	AUTOCAL LOT 0017	mmol/l	2.61	2.24 - 3.00	mg/dl	122	86.8 - 116
fornogenous enzymatic assay	AUTOCAL LOT 0018	mmol/l	2.77	2.43 - 3.10	mg/dl mg/dl	101	94.1 - 120
IDL CHOLESTEROL	for Kit calibrator only		3.31	2.92 - 3.72	The State of the last of the l	10000	113 - 144
recipitation method	Humalyzer photometer	mmol/I		37.8 - 66.2	mg/di	128	
	HumaStar analyzer AUTOCAL LOT 0017	µmol/l	52.1	46.2 - 55.7	IP/8tf	291	211 - 370
RON liquicolor	HumaStar analyzer AUTOCALLOT 0018	µmol/l	50.8	27.2 - 52.6	IP/di	284	258 - 311
	Humalyzer photometer	µmol/l	39.9		PB/dl	223	152 - 294
And the second s	HumaStar analyzer AUTOCAL LOT 0017	µmol/l	54.4	The state of the s	118/811	304	279 - 330
RON TPTZ liquicolor PTZ	HumaStar analyzer AUTOCAL LOT 0018	µmol/l	53.2		IP/SH	297	279 - 316
	Humalyzer photometer	µmol/I	51.7		HB/dl		253 - 325
MMUNOGLOBULINS direct IgA	HumaStar analyzer, HumaLyzer photometer	g/I	2.58	2.28 - 2.88	mg/d	258	228 - 288
mmunoturbidimetry MMUNOGLOBULINS direct IgG	manuscar amaryzer, manuacyzer photometer		1000000	9.83 - 14.8	mg/c	1 1234	983 - 1484
mmunoturbidimetry	HumaStar analyzer, HumaLyzer photometer	g/I	12.3	3.03			Total Control
	HumaStar 600, Humalyzer 4000	8/1	0.86	0.78 - 0.93	mg/d	SECTION AND DESCRIPTION OF REAL PROPERTY.	78.2 - 93.0
MMUNOGLOBULINS direct IgM mmunoturbidimetry	HumaStar 100/200/300SR,	No.	1.16	0.90 - 1.43	mg/	d1 116	89.7 - 143,
- Indiana	HumaLyzer 2000/3000	g/I		10.4 - 12.8	U/I	696	625 - 767
LDH SCE mod, liquiUV Substrate Pyruvate, 37°C, SCE	HumaStar analyzer AUTOCAL LOT 0017	µkat/l	11.6	10.	U/		023 101
	HumaStar analyzer AUTOCALLOT 0018	µkat/l	11.3	1000	U/		022 193
	HumaLyzer photometer	µkat/l	11.3	The second secon	mg/		100
LDL CHOLESTEROL liquicolor Homogenous enzymatic assay	AUTOCAL LOT 0017	mmol/l			mg/	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN 1	207 210
	AUTOCAL LOT 0018	mmol/l	4.58	3.05 - 6.10	mg/	-	
	Kit calibrator	mmol/l			U/		2.10
LIPASE liquicolor Substrate Methylresorufin, 37°C	LOT 21001 and higher: AUTOCAL LOT 0017	μkat/l	1.39	1.25 - 1.53	U/		32.0
	LOT 21001 and higher: AUTOCAL LOT 0018	μkat/l	1.21	1.05 - 1.37			
	up to LOT 20010: AUTOCAL LOT 0017 and 0018	µkat/l	1.09	0.81 - 1.38	U		
	HumaStar analyzer AUTOCAL LOT 0017	mmol/l	1.30	1.16 - 1.43	mg	Andrew Commission	
AAGNESIUM liquicolor	HumaStar analyzer AUTOCAL LOT 0018	mmol/l	1.24	1.07 - 1.41	mg.	Andrew Comments	01 2.59 - 3.43 25 2.93 - 3.57
Sylidyl blue	Humalyzer photometer	mmol/l	1.34	1.21 - 1.47	mg	Andrew Property	
	AUTOCAL LOT 0017	μkat/l	2.98	2.80 - 3.15		And in case of	79 168 - 189
ANCREAS-AMYLASE liquicolor PS-G7, 37°C	AUTOCAL LOT 0018	µkat/l	2.57	2.35 - 2.77			54 141 - 166
, , , , , , , , , , , , , , , , , , , ,	HumaStar analyzer AUTOCALLOT 0017	mmol/	2.78	2.62 - 2.94		Designation of the last of the	61 8.10 - 9.1
HOSPHORUS liquirapid	HumaStar analyzer AUTOCAL LOT 0018	mmol/	2.85	2.63 - 3.07	mg	/dl 8	8.14 - 9.5
Aolybdate (UV)	Humalyzer photometer	mmol/	1 2.77	2.44 - 3.11	mg	/dl 8	.59 7.55 - 9.6
MANAGE TO SAID		mmol/	6.30	5.91 - 6.69	mv	al/1 6	30 5.91 - 6.6
otassium SE direct	HumaStar 600, HumaLyte	minor	0.50				
OTASSIUM liquiUV	HumaStar analyzer, HumaLyzer photometer	mmol	/1 6.46	5.57 - 7.3	4 mv	al/l 6	.46 5.57 - 7.
nzymatic		The state of the s	0	355 355		ral/l	160 155 - 16
iodium	HumaStar 600, Humalyte	mmol,	/1 160	155 - 165	thy		155 - 16
SE direct	and the three tree shatemeter	mmol	/1 151	131 - 171	ı mı	/al/l	151 131 - 1
ODIUM liquicolor nzymatic	HumaStar analyzer, HumaLyzer photometer	1111101					
ODIUM RAPID	Humalyzer photometer	mmol	/1 134	106 - 16	1 m	val/I	134 106 - 1
recipitation method	inches production and the second					7	
1BC	Lives Star analyzer	umol	/1 105	87.0 - 12	3   н	g/dl	588 486 - 6
	HumaStar analyzer						
e saturation e determination using IRON TPTZ liquicolor	HumaStar analyzer AUTOCAL LOT 0017	g/I	91	2 86.1 - 96	2 8	y/dl	9.12 8.61 - 9
OTAL PROTEIN Ilquicolor	HumaStar analyzer AUTOCAL LOT 0018	g/1	-	the same of the sa	6 1	g/dl	10.0 9.44 - 1
uret		8/1		9 85.3 - 10	2 1	g/dl	9.39 8.53 - 1
THE RESERVE OF THE PARTY OF THE	HumaLyzer photometer HumaStar analyzer AUTOCAL LOT 0017.				07	ng/dl	235 201 - 3
RIGLYCERIDES liquicolor <sup>mene</sup> CI	Humastar analyzer AUTOCAL LOT 6017. Humastyzer photometer	mmo	1/1 2.6				
DD THE	HumaStar analyzer AUTOCAL LOT 0018	mme	01/1 2.7	4 2.51 - 2.5	98 n	ng/dl	240 220 - 3
	The State of the S	mme	MANUFACTURE OF THE PARTY OF THE	6 20.0 - 23	7.3 r	ng/di	142 120 -
REA liquicolor	Humatyzer photometer	mme	23				
erthelot mod.	HumaStar analyzer AUTOCAL LOT 0017,	mmo	01/1 23.	8 22.1 - 2	5.6	ng/dl	143 133 - 1
REA liquiUV	Humalyzer photometer	Victoria Contraction		3 20.8 - 2	4.0	mg/dl	134 125 - 1
rease (UV)	HumaStar analyzer AUTOCAL LOT 0018	mmo	di Armi				10.7 8.74 - 1
	HumaLyzer photometer	μmo	CONTRACTO CONTRACTOR			mg/dl	10.2 9.35 - 1
RIC ACID liquicolor plant	HumaStar analyzer AUTOCAL LOT 0017 and 0018	μтο		Marian Ma		mg/dl	10.0
ricase	HumaStar analyzer AUTOCAL LOT 0017	μmc		A STATE OF THE PARTY OF THE PAR		mg/dl	3.51
RIC ACID liquicolor	HumaStar analyzer AUTOCAL LOT 0018	μmc	61	Section 1		mg/dl	1013
A C I C HOURS OF	analyzer AUTUCAL COTON	THE RESERVE	01/1 61	3 544 - 6	79	mg/dl	10.3 9.14 -

CL-SP Serv 2033 - value of 13.03.2023 real 133/5102 - Version 3/07 - 2023



Human Gesettschaft für Biochemica und Diagnostica n Max-Planck-Ring 21 - 65205 Westbaden - Germ Telefon +49 6122-9988-0 Telefax +49 612-9988-100 e-Mail human@humai

		LOT N	College of the last			No. of Street,	SHOWING THE PERSON NAMED IN	1	AND THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	
SERODOS® plus		27	2024-00-27		100	utos i/www.b	Mean .	Berri	ech	
SERODOS	Continues Cibles		-	897	- V	gament "	Mittahwert Media	Early or de		
Target Values / Sollwerte / Valores As	signados/ Valeurs S	SECONT A	Mean	Barri	61071		Media	plage		
Target Value		Countried ST	Alariffs SAmplemen	Hard day	Hells - Italian	Unité			1	
Bangard riams / Bangarisbeyah(hinung /	Whitespie been	China pr	Mayer	No.	-		100	11.6	- 19.9	
Method / Michode / Metodo/ Metodo		The said	The same of	ALCOHOL:	112	11/1	15.3	14.5	18.5	
HUMAN reagent sits		phyt/l	0.26	0.19	0.82	U/I	163	434	. 5.91	
Contract VALUE	AUTOCAL CIT 1013?	3/Ra1/1	0.28	0.24 46.4	99.1	w/dt	9.03	4.51	- 557	
ACIO PHOSPHATASE	AUTOCAL COT DOLLS SUPPLIED AND STREET AND ST	16/1	54.3		- 15.7	#fd1	9.03	101	- 152	
a Naparagrama		16/7	90.2	5.02	- 587	UP	200	257	- 920	
ALBUMAN Revision		1/1×16/4	1.42	3.02 a.28	- 531	UA	299	249	3 - 313	1
SCHOOL STREET,	Harry trac analysis AUTOCAL LOT 1913 Harry trac analysis AUTOCAL LOT 1913	phat/I	4.82 4.68	4.13		US	381	329		1000
ALEXANDE PROCESSATASE Revisales		past/1	0.35	3.65	- 1.07	un	402	171		A Treat
LAD DURINE, W. C. T.	Plumation photometer  Plumation analytis AUTOCAL LIST 6012  Plumation analytis AUTOCAL LIST 6012	pkst/1	8.70	6.1.0	7.22	U/I	43.1	1 150	10 - 471	A STATE OF
The second secon	The Anthrew RUTTOCAL LUT OUT	parat/1	6.65	5.83	7.87	U/I	383	3 30	-	A
CKALINE PHOSPIGATASE Upt. Equipolor	Hamilyote photomates Hamilyote photomates Hamilyote ADDO, Setting mbsts Humistar analyses AUTOCALLOT 0017.	şikut/l	5.70	5.00	5 6.40		-	2 34	44 - 301	A
HA BURN, 17°C, GSCC/DGKE	Training Name 2000, Setting Street Conf.	piket/1	4.53	4.07		UM		17 21	155 - 508	A
	Priumpštar analyser AUTOCAL TO	plant/t	4.70	4.25		U/I		65 1	125 - 106	A
Iphe-AMTLASE liquicolor	HumaSyste photometer HumaSyste photometer HumaSher analyzer AUYOCALIOT 9938	8/1	1.65	1.25	5 - 2.0f	mg/d	200		174 - 216	4
NPGL 37°C, HCC	Hymaton milyani	8/1	1.95				The state of the s	32	053 - 174	
POUPOPROTEIN AL	HumaStar anny ser		1.55		15 - 1.74	mg/d	Van -	135	***	
nonunitaritation metry		g/t					Vai 2	1.04		
NOUPOPROTEIN 8	Humaštar and the	sumist/1		-			t/d1 2.	7.38	1.56 - 3.13	A
- unitable metry	AUTOCAL IOT 0017	umol/l	40.7		119		g/d1 2	2.35		
Notice that G-MORURALITY of	AUTOCALTO	umo!/1	1 40.4	-	1.4 - 70.6			3.86	359 - 413	4
to mitted	Humalyzer 2000 AL/TOCAL 10T 0017, Humalyzer philtometer 4000	µmol/1	/1 66.0					The same of	3.70 - 4.2	19
	ALMOCAL EDITORIES	µmol/l	7000	4 67	33 - 734	4 mg	ig/dl	4.00		-
rtu-BILIEUBIN-T liquicator	ALITOCAL IOY 9018	Minne			20	-	-	100	2.97: 43	31
D method		mol	/1 62.3	4 9	10.8 - 73	7 17	ng/di	3.64		-
	isumatyon phintometer	jumol/	1000		55.2 - 75.	7	mg/dl	3.87	123 - 4	
LIEURIN liquiroler	- Abidrating that	umol/	t/I 65.3	100			-	3.54		3.92
A method  JRUSHN DIRECT/TOTAL liquicoles		µmol/		5 5	54.0 - 67	7.0 m	mg/di	330		
BUSINESSEE OF Billimbin total	HumaCyser 4000	person	1/1				mg/dl	2.53	1.99 - 3	3.06
dransik-Crist		µmot/	1/1 43	9 7	14.0 - 57	200	1000			
JRUBIN DIRECT/TOTAL figulcolar	Humalyzer phutometer	1	***				mg/dl	12.1		12.9
security back types and description of delination of delination direct describ Grant	TOTAL LOT OF 17	mmol		0.0		1.23 #	mg/dl	12.1	4,411	12.9
	HumaStar analyzer AUTOCAL LOT 0017	mmo	01/1 3.0	.03 2			mg/dl mg/dl	12.4	11.8 -	12.9
CIUM liquicelar	HumaStar analyzer Autococco to total	mmo	01/)		2.95 - 3					- 440
tio cresolphthalein	Humalyzer photomers		00.		107 - 1		mg/dl	411		
	Inuma Star 600, Humalyte	mmo		110	100	133	mg/dl	440	415	- 464
oride direct	TOO TO SHOW ALTERIAL LOT 0017	mmo	Mary Co.	124		131	mg/dl	422	383	
/eci		mmo	nal/1 1	119	100,000		mar(d)	429	372	
ORIDE liquicolor	Humastar analyzer AUTOCAL COT OVAL	mmo		121	-	137	mg/dl	464	421	
ORDE liquicolor 2 method		mme	rest.	131		146	mg/d1	777	7.00	
Hebroo	Humalyzer photometer 4000 only Humalyzer photometer 4000 only		THE PARTY NAMED IN	8.15	7.03 -	9.26	mg/dl			
	HumaStar analyzer AUTOCAL LOT 0017 HumaStar analyzer AUTOCAL LOT 0018,					9.88	mg/dl			The state of the s
DLESTEROL liquicolor		min		8.46	-	100000	11/2/20	7880	-	59 - 8400
IO-PAP	Humalyser photosissis	NA.	kat/l	131	123 -	- 140	U/I			
	HumaStar analyzer			140	126 -	- 154	u/i	840	-	NA CONTRACTOR
EINESTERASE liquicolor sytthiocholine, 37°C, GSCC/DGKC	Humalyzer 4000		-acj.		9.50 -	- 142	U/I	71	2 3	570 - 854
		H	kat/l	11.9	100000					715 848
IAC activated	Humalyzer photometer			13.0	11.9 -	- 14.1	U/I	19	02.	STATE OF THE PARTY OF
matic 37°C	HumaStar analyzer AUTOCAL LOT 0017		-	100000	10.9	- 13.0	U/1	7	118 6	656 - 779
	Minns Star analyzer AUTOCAL COT GOTES	143	skat/l	12.0					-	510 789
IAC liquiUV matic, 37°C, IFCC	Humalyzer 4000/Primite	V	ukst/l	10.8	8.50	- 13.1	U/I		0.40	
atic, 37°C, IPCC	2000/3000					1014	mg/c	0 1	5.08	3.96 - 6.1
100	HumaStar analyzer AUTOCAL LOT 0017,	H	ımal/l	449	350	-69	4,150	100	3,011	4.74 - 5.
CREATININE liquicolor		V	I/Jomu	443	419	- 467	mg/		3.04	-
	HumaStar analyzer AUTOCAL LOT 0018	1000	COLUMN TO SERVICE STREET				mg	SCHOOL SECTION	4.74	4.20 - 5
		Y	µmol/l	419	371	1 - 466	100	un		-
TININE liquicolor	Humalyzer photometer	100		-	47	107	m	g/dl	5.29	4.85 - 5
All Control of the Co	List - of the analyter AUTOCAL LOT 0018,	Y	µmol/l	468	429	Hills - Division		Section 1		-
The second second	Turio HumaStar 600 AUTOCAL CO. CO.		µmol/l	425	395	5 - 454	my	g/dl	4.81	The state of the s
ININE (enzym) liquicolor	HumaStar 600 AUTOCAL LOT 0017			425	349			ng/dl	4.73	3.95 -
atic	idumativeer 4000		µmol/1	The second		12		U/I	135	107 -
	HumaStar analyzer AUTOCAL LOT 0017		µkat/l	2.25	1.7				142	128 -
a-GT liquicolor	HumaStar analyzer AUTOCAL 2018		µkat/l	2.37	2.1		~	U/I		
a-GT liquicolor a-Glutamyl-3carboxy-4-nitroanilide.	HumaStar analyzer AUTOCAL LDT 0018			2.05				1/1	123	103
a-Glutamyt-3carboxy-4-nitroxninoe.	Humal yzer photometer		µkat/l				-	mg/dl	205	192
R. Comments	HumaStar analyzer AUTOCAL LOT 0017		mmol/l	11.4		0.7 - 12.0			198	185
	HumaStar analyzer AUTOCAL CO.		mmol/i	11.0	1/	03 - 11		mg/dl		The Charles
SE ilquicolor	HumaStar analyzer AUTOCAL LOT 0018	7 - 10 12		11.5		0.4 - 12.	5	mg/dl	207	188
	HumaLyzer photometer		mmol/l	-	The same of	AND RECORDS		mg/dl	208	190
	HumaStar analyzer AUTOCAL LOT 0017		mmol/l	11.5	2				-	180
	Humastar analyzer Autocas and not 8		mmol/I	11.0	5 Y			mg/dl	199	
W. Harrist D. Printer.	HumaStar analyzer AUTOCAL LOT 0018		mmol/I	12.4	_	10.8 - 14	14.0	mg/dl	223	19
SE liquiUV <sup>mene</sup>	Humalyzer photometer		Contractor of the last of the	All lines.	A	100	-	-	-	



GLUCOSE IIquiUV

				-	Earige	Linit Einheit	Mean		reich
		1 St Unit	Mean		Bereich	Unidad	Media	minus d	le valeurs
	en / sellcable note /	SI Einheit	Media	"		Unité	Moyenn		
/ American Company of the Company of	applicable for / anwendbar für / aplicable por /	Unided 57	Mayenn	e Pla	ge de valeurs	1)/1	134	126	137
Reagent name / Reagenabeseichnung /	abblicapse bom,	Unité SI	-		10 - 2.38	U/I	123	115	
Parametro / Paramètre Parametro / Paramètre Method / Methode / Método/ Methode	100 March 101 0017	µkst/l	7.23		92 - 2.18		125	109	- 140
Method / Metroce /	HumaStar analyzer AUTOCAL LOT 0017	µkat/l	2.05	-	- 12	U/I		113	- 132
A DESCRIPTION OF THE PROPERTY	Muera Star analyzer AUTOCAL DOLOGO	situat/1	2.08		-	11/1	123	106	444
GOT (ASAT) IFCC mpd. higher/AV Legymatic, 37°C, SCC without PSA	The state of the s	pkat/l	2.05			U/I	1.19	96.1	
(repeating 1) Conce		pkat/5	1.98			U/I	115		-
	Humahter analysis AUTOCAL LOT 0018		1.92		60 - 2.25	mg/dl	122	104	
GPT (ALAT) IFCC most liquidOV	Humslycer photometer	jikat/l	3.15	- 3	1.69 - 3.62	11160	101	26.5	
Entyrollic at a sace without of	AUTOCAL (OT 9017	menol/1	2.61		24 + 3.00	eng/d)	107	94.7	1 - 120
The second secon		mmol/I	2.77		2.43 - 3.10	mg/dl		111	3 . 144
HOL CHOLESTEROL liquicolor	ALITOCAL LOT 0018	mmol/l	-	_	The state of the s	mg/dl	128		
semogenous enzymatic assay	for Kit calibrator only	mmol/I	3.31		1.92 + 1.72		291	21	
	Humatyan photometer		52.1		37.8 - 66.2	pg/dl	294		8 - 311
HOL CHOLESTERCA Inactivitation method	Humastar analyzer ALTOCAL LOT 0017	Nomy	50.5		46.2 - 55.7	µg/dl			2 + 294
Principles of the Control of the Con	HumaStar analyzer AUTOCAL LOT 0038	µmel/I	19.5		27.2 - 52.6	ug/dl	223	-	The second second
RON Siguicator	Huma Star anarysm war out a con-	µmol/l		-	49.9 - 59.1	pag/di	304		A CONTRACTOR OF THE PARTY OF TH
CAB.	Humalyzer photometer	µmtil/l	54.		47.7	pg/di	297		2000
	HumaNter shalyser AUTOCAL COT 0017	µmol/1	53.		400	ug/di	28	9 25	93 - 325
IEON TPTZ liquicelor	Huma liter analyzer & CHOCAL ED FOOTH	umol/1		7	777			H 7	26 + 288
TETS	Notice were applicable and	-	2.5	8	2.28 - 2.88	mg/d	23		
	HumaStar analyzer, HumaLyzer photometer	8/1	-	-		mg/d	1 12	34 9	183 - 1484
IMMUNOGLOBULINS direct IBA	Hamiltonia Street Street	8/1	12.	3	9.83 - 14.8	-	- 10		N.2 - 93.0
	HumaStar analyzer, HumaLyzer photometer		0.8	-	0.78 - 0.93	mg/d	85	9.70	
IMMUNOGLOBUUNS direct IgG	1000 ACCORD	8/1	-		0.7=	mg/d	1	16 8	19.7 - 143
municitarisdime:ry	Humaster 600, Humalyser 4000	8/1	3.3	16	0.90 - 1.43	. I I I I I I I I I	25	_	625 - 767
IMMUNOGLOBULINS direct igM	HumaStar 180/200/3005R.			-	10.4 - 12.8	U/I		190	0.00
immunoturbidimetry	Humalyzer 2000/3000 HumaStar analyzer AUTOCAL LOT 0017	µkat/			10.3 - 12.2	U/I		100	O'DO
	HumaStar analyter AUTOCAL LOT 0015	uknt/	1.1	3		U/I	6	177	30.3
LDH SCE med. RquIUV	HumaStar analyter AUTOCALLOT 0018	µkat/	1 11	3	PONTS IN THE PROPERTY OF THE P	mg/	-	165	109 - 218
Substrate Pyravate, 32°C, SCI.	Humatyrer photometer	mmpl		22	2.82 - 5.64		41	177	118 - 236
AND THE PROPERTY OF THE PARTY O	AUTOCAL LCT 0017	mmol	C C	58	3.05 - 6.10	mg/	41	185	140 - 230
Hautcolet	AUTOCAL IOT 0018		1-	78	3.62 - 5.95	mg/	347		75.0 - 92.0
LDE CHOLESTEROL liquicoler remageneus enzymatic accey	and the second s	mmol	PAN DE		1.25 - 1.53	U/		#3.5	The same of the sa
	EX calibrator  LOT 2000 and higher: AUTOCAL LOT 0017	µkat.		39	1.05 - 1.37	U,	Y =	72.5	62.9 - 82.1
	LOT 23003 and higher ADTOCAL LOT 0018	phat	/1 3	21	8.00	U		65.5	48.4 - 82.6
LIPASE liquicator Substrate Methyliesorufin, 87°C	LOT 21001 and higher: AUTOCAL LOT 0018	µkat.	0 1	.09	0.81 - 1.38	_		3.15	2.83 - 3.47
	ALTOCALION SOLVER	mmo		10	1.16 - 1.43	mg	101		2.59 - 3.43
	ALTEGRAL LOT 0017		NA.	24	1.07 - 1.41	mg	/dl	3.01	-
and the state of	HumaStar analyzer AUTOCALLOT 0018	mmo	2		1.21 - 1.47		/dl	3.25	
MAGNESIUM liquicolor sylidyl truse	Philipasial analysis	mmo	97	34		_	/1	179	168 - 189
styrings more	HumaLyzer photometer	μkat		1.98	200	-	10	154	141 - 166
PANCREAS-AANYLASE Republish	ALITOCAL LOT 0017	pikat	11	1.57	235 - 277	71,11	-	8.61	8.10 - 9.11
195-G7, 37°C	AUTOCAL LOT 0018	mmo	N/I	2.78	2.62 - 2.94		g/di	_	8.14 - 9.52
	HumaStar analyzer AUTOCAL LOT 0017	mme		2.85	7.63 - 3.01	m	g/dl	8.83	7.55 - 9.62
PHOSPHORUS liquirapid	HumaStar analyzer AUTOCAL LOT 0018			2.77	2.44 - 3.1	m	g/dl	8.59	7,55 - 9.04
Malybdate (UV)	Humalyzer photometer	mm	01/1	4.77		1000	val/1	6.30	5.91 - 6.69
		mm	1/10	6.30	5.91 - 6.6	- 111	4011	-	-
Potassium	HumaStar 600, HumaSytz			1050	557 - 73	4 10	rval/1	6.46	5.57 - 7.34
SE direct	1 and 14 and war photometer	mm	1/10	6.46	3.37 . 7.3	200	SHIKE!	0.00	
POTASSILIM liquiUV	Humaštar analyser, Humatyzer photometer				155 - 16	6 1	wal/I	160	155 - 165
Enzymatic	a consequence	mm	101/1	160	133 - 10				
Sedium	HumaSter 600, Humalyte	77.000	Take 1	400	131 - 17	1 1	mval/I	151	131 - 171
SE direct	HumaStar analyser, Humatyser photometer	mm	101/1	151	A44 51	100	No. of Lot		
SODIUM liquicolor Enzymatic				134	106 - 16	1 1	rival/I	134	106 - 161
SODIUM RAPID	Humalyzer photometer	11011	101/1	1.24			-		
Precipitation method	And the second of the second o			200	100000	60	Links I	586	486 - 689
	10 (0.00)	1 Lin	nol/1	105	87.0 - 13	23	µg/dl	384	
TIBC Fe saturation	HumaStar analyzer	par.		-				2.45	8.61 - 9.62
Fe saturation Fe determination using IRON TFTZ liquicalor			1/2	91.2	85.1 - 9	6.2	g/dl	9.12	The second second second
	HumaStar analyzer AUTOCALLOT 0017			100.0	94.4 - 1	06	g/dl	10.0	9,44 - 10.6
TOTAL PROTEIN Squicolor	HumaStar analyzer AUTOCAL LOT 0018		1/2			02	g/d1	9.39	8.53 - 10.2
Buret	inumal yeer photometer		g/l	93.9	95.3 - 1	-	and the same of		201 - 269
	HumaStar analyzer AUTOCAL LOT 8017,	200	mol/1	2,68	2.29 - 3	.07	mg/dl	235	201 - 269
TRICLYCERIDES liquicalar	Portunative photometer		The state of the s	12260	-	0.00	mg/dl	240	220 - 261
LEIGTACENIDE2 indriction	HumaStar analyzer AUTOCAL LOT 0018	m	moi/I	2.74	251 - 7	98	mg/us	-	
The same of the sa			Blom	23.6	20.0 -	27.3	mg/dl	142	120 - 164
UREA liquicator	Humalyzer photometer	- m	mol/l	23.0	300	10000	-	-	200000000000000000000000000000000000000
bertheat mos.	HumaStar analyzer AUTOCAL LOT 0017,	11100	Blom	23.8	22.1 -	25.6	mg/dl	143	133 - 154
URTA NeulUV	Humaistar analyzer Ad rocks to 1000; Humai year shotumeter	m	mol/1	23.8		1	-	-	125 - 144
Urease (UV)	PROPERTY OF AUTOCAL INTONIA	- 10	mol/L	22.3	20.8 -	24.0	mg/dl	134	
Ministration of the second	HumaStar analyzer AUTOCAL LDT 0018		mol/1	636	520 -	755	mg/dl	10.7	8.74 - 12.7
URC ACID liquicolor <sup>phe</sup>	Humalyzer photometer			1,000		660	mg/dl	10.2	9.35 - 11.1
Uricase	HumaStar analyzer AUTOCAL LOT 0017 and 0	018 P	mol/I	607		-		9.57	-
	HumaStar analyzer AUTOCAL LOT 0017	7.9	//lomi	565	491 -	548	mg/dl	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	
URIC ACID liquiculor	HumaStar analyzer AUTOCAL LOT 0038	_	I/Joma	613	504 -	770	mg/dl	10.3	2 - I SHOULD SHOW
Uricese			mol/I	613		678	mg/dl	10.3	3 9.14 - 11.4
	Humalyzer photometer	100	Tribbill I	10.2.3	The second		-	_	

10:07

Name and Address of Child Little

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**Human** 

Human Gesellschaft für Biochemica und Diagnostica mört Max-Planck Ring 21 65205 Westbaden Germany Talefon +49 6122-9986-0 Talefax +49 612-9985-100 «Mait human@human de