

CERTIFICATE OF PARTICIPATION

Survey of 17 March 2023

You have participated in the External Quality Assessment with the following analysis

Urine Chemistry 03 (Biogene Amines) (175):

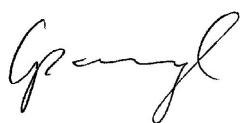
5-Hydroxyindolea Acid
Metanephrines
Vanillylmandelic Acid

(R) analysis is subject to the RiliBÄK

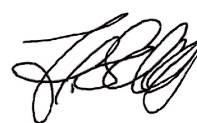
Participant:

32840
Zakład Diagnostyki Laboratoryjnej
Szpital Uniwersytecki nr 2
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Düsseldorf, 06 April 2023



Prof. Dr. med. Michael Spannagl
(Head of Reference Institution)



Dr. rer. nat. Heike Schneider
(Adviser)

Listing and evaluation of the results

32840: Zakład Diagnostyki Laboratoryjnej
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Urine Chemistry 03 (Biogene Amines)

Analyte	Sam- ple	Unit	Your value	Target value	TV- Type	Lower limit	Upper limit	Deviation	Z-Score	Meets criteria	
5-Hydroxyindolea Acid	21	μmol/l	41.4	16.3	SV	8.97	23.6	154.1%	9,27	-	
	22		155	121	SV	66.6	175	28.2%	1,9	+	
Metanephrines	21	μmol/l	2.27	0.878	SV	0.483	1.27	158.5%	7,44	-	
	22		2.15	0.524	SV	0.288	0.760	310.3%	11,5	-	
Vanillylmandelic Acid	21	μmol/l	38.1	10.3	SV	5.67	14.9	270.4%	19,9	-	
	22		6.76	5.04	SV	2.77	7.31	34.2%	1,45	+	

Analyte	Sam- ple	Your unit	Stated value	Conversion factor	Method	Manu- facturer	Device	Detection limit	dilution
5-Hydroxyindolea Acid	21	mg/l	7.92	5.23	166	ZY			
	22		29.7	5.23					
Metanephrines	21	μmol/l	2.27	1.00	166	ZY			
	22		2.15	1.00					
Vanillylmandelic Acid	21	mg/l	7.56	5.05	166	ZY			
	22		1.34	5.05					

Individual summary of results

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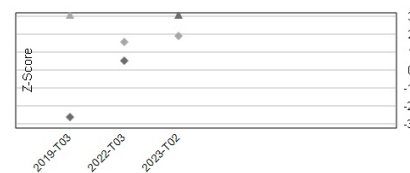
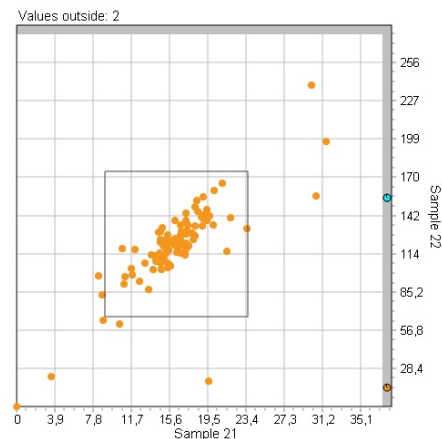
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Urine Chemistry 03 (Biogene Amines)

5-Hydroxyindolea Acid ($\mu\text{mol/l}$, N = 105)

Collective	Sample	Target value	Target range	Participants collective			Rate (%)		
				AVG	CV	Num.	Sam.	total	
all methods	21	16.3	8.97 - 23.6	16.3	16.6	105	90.5	88.6	
	22	121	66.6 - 175	121	14.8	105	92.4		

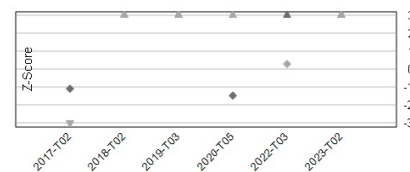
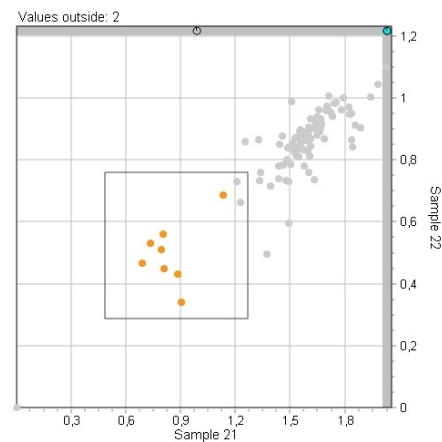
Rate of success: 88,6%



Metanephrines ($\mu\text{mol/l}$, N = 103)

Collective	Sample	Target value	Target range	Participants collective			Rate (%)		
				AVG	CV	Num.	Sam.	total	
HPLC / LC-MS	21	1.60	0.880 - 2.32	1.60	8.69	94	98.9	97.9	
	22	0.874	0.481 - 1.27	0.874	9.73	94	97.9		
other methods	21	0.878	0.483 - 1.27	0.878	21.3	9	88.9	88.9	
	22	0.524	0.288 - 0.760	0.524	26.9	9	88.9		

Rate of success: 97,1%





Vanillylmandelic Acid (µmol/l, N = 97)										
Collective	Sam- ple	Target value	Target range			Participants collective			Rate (%)	
						AVG	CV	Num.	Sam.	total
all methods	21	10.3	5.67	-	14.9	10.3	13.6	97	92.8	86.6
	22	5.04	2.77	-	7.31	5.04	23.6	97	87.6	

Rate of success: 86,6%

