METTLER TOLEDO

Mettler-Toledo GmbH Im Langacher 44 CH-8606 Greifensee Tel.: (41) 44 944 22 11

Certificate Ph. Eur. General Chapter 2.1.7 "Balances for Analytical Purposes"

Custo	omer				
	Company:	Omega Pharma Manufacturir	ng		
	Address: 1900 Polaris Pkwy				
	City:	Columbus	Contact:	John Doe	
	Zip/Postal:	43235	Order Number:	PO12345	
	State/Province:	ОН			
Weig	hing Device				
	Manufacturer:	Mettler Toledo	Instrument Type:	Weighing Instrument	
	Model:	XPR205DR	Asset Number:	111111111	
	Serial No.:	1234567890	Terminal Model:	N/A	
	Building:	GD	Terminal Serial No.:	N/A	
	Floor:	4 th floor	Terminal Asset No.:	N/A	
	Room:	GD610	Alternate Asset No.:	EP98493211	
	Range	Max. Capacity	Readability (d)		
	1	81 g	0.00001 g		
	2	220 g	0.0001 g		
Proce	edure				
	Reference Docun	nent:	Ph. Eur. General Chap	oter 2.1.7	
	METTLER TOLEDO Work Instruction:		Pharmacopeial Certificate WI 10000027820		
	This certificate contains measurements for the As Found and As Left tests.				
	The sensitivity of	the weighing instrument was a	djusted before the As Left	tests.	
	\sim				
	As Found Test Da	ate: 28-FEB-2011	Service Technician:	Celaus A Frisil	
	As Left Test Date		-	Klaus Fritsch	
	Issue Date:	28-FEB-2021	_		
	Next Test Date:	28-FEB-2022	_		

Summary of Results

Repeatability			As Found	As Left
Test	Smallest Net Weight	Tare Load	Assessment	Assessment
RP_SNW_0.05g	0.05 g	N/A	~	~
Accuracy			As Found	As Left
Sensitivity			/	_

Measurement Results

Repeatability

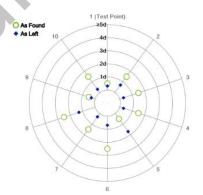
Repeatability Test RP_SNW_0.05g

 Smallest Net Weight:
 0.05 g
 Tare Vessel ID:
 N/A

 Test Load:
 10 g
 Tare Vessel Description:
 N/A

	As Found	As Left
1	10.00002 g	10.00000 g
2	10.00003 g	10.00001 g
3	10.00001 g	9.99998 g
4	10.00001 g	10.00000 g
5	9.99999 g	10.00000 g
6	10.00001 g	10.00001 g
7	10.00001 g	10.00000 g
8	10.00001 g	9.99999 g
9	10.00002 g	9.99999 g
10	9.99999 g	10.00001 g

Mean Value	10.000010 g	9.999999 g	
Standard Deviation	0.000012 g	0.000010 g	
Assessment 1)	0.05 %	0.04 %	
Requirement	0.10 %	0.10 %	
Minimum Weight 2)	0.02494 g	0.01989 g	



The "d" in the graph represents the readability of the range/interval in which the test was performed.

The results of this graph are based upon the absolute values of the differences from the mean value.

²⁾ Minimum weight = 2000 * standard deviation. If the calculated standard deviation results in a value smaller than the rounding error of 0.41*d where d is the readability of the range/interval in which the test was performed, then the standard deviation is replaced by 0.41*d. In this case, minimum weight = 2000 * 0.41 * d.

All calculations are performed in the software to 16 decimal places, however the printed results are rounded according the following rules: The standard deviation is rounded mathematically to one digit further than the readability of the range/interval in which the test was performed. The minimum weight is rounded mathematically to three significant figures. For the repeatability assessment, the printed result of the formula (2*standard deviation / smallest net weight) or (2 * 0.41*d / smallest net weight, respectively) is rounded mathematically to the same readability as the repeatability requirement (0.10%), i.e. with two digits after the decimal when presented as a percentage.

 $^{^{1)}}$ The repeatability test is passed if 2 * standard deviation / smallest net weight \leq 0.10 %. If the calculated standard deviation results in a value smaller than the rounding error of 0.41*d where d is the readability of the range/interval in which the test was performed, then the standard deviation is replaced by 0.41*d for the assessment.



Accuracy

Sensitivity

	As Found	As Left
Test Load	200 g	200 g
CMV	200.0001 g	200.0001 g
Indication	199.9996 g	200.0002 g
Deviation 1)	- 0.0005 g 🗸	0.0001 g
Requirement	0.1000 g	0.1000 g

¹⁾ The sensitivity test is passed if the absolute value of the deviation ≤ 0.05 % of the test load value. The requirement for the assessment of sensitivity is 0.05 %. This ensures adherence to the overall accuracy requirement of 0.10 % because other balance properties might also limit the accuracy of the instrument.

Reference Weights

All weights used for metrological testing are traceable to national or international standards. The weights were calibrated and certified by an accredited calibration laboratory.

Weight Set 1: OIML E2

 Weight Set No.:
 WS12345_E2
 Date of Issue:
 04-JAN-2021

 Certificate Number:
 34567890
 Calibration Due Date:
 03-JAN-2023

Remarks

N/A

