METTLER TOLEDO

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

Certificate USP General Chapter 41 "Balances"

Custo	omer				
	Company:	Omega Pharma Manuf	acturing		
	Address:	1900 Polaris Pkwy			
	City:	Columbus	Contact:	John Doe	
	Zip/Postal:	43235	Order Num	nber: PO12345	
	State/Province:	ОН			
Weig	hing Device				
	Manufacturer:	Mettler Toledo	Instrument	t Type: Weighing Ir	nstrument
	Model:	XPR205DR	Asset Num	ber: 111111111	1
	Serial No.:	1234567890	Terminal M	N/A	
	Building:	GD	Terminal S	erial No.: N/A	
	Floor:	4 th floor	Terminal A	sset No.: N/A	
	Room:	GD610	Alternate A	Asset No.: EP9849321	1
		24 0 '	0 11111 (1)		
	Range	Max. Capacity	Readability (d)		
	2	81 g	0.00001 g		
		220 g	0.0001 g		
Proce	edure				
	Reference Docun	nent:	_USP Gener	ral Chapter 41	
	METTLER TOLEDO	O Work Instruction:	Pharmaco	peial Certificate WI 1000	0027820
	This certificate co	ontains measurements fo	r the As Found and A	s Left tests.	
	The sensitivity of	the weighing instrumen	was adjusted before	the As Left tests.	
				[, Po.	DFire
	As Found Test Da	te: 28-FEB-20	Service Tech	nician:	Why.
	As Left Test Date	: 28-FEB-2	021	Klau	us Fritsch
	Issue Date:	28-FEB-2	021		
	Next Test Date:	28-FFB-2	122		



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

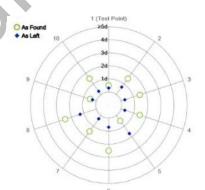
Repeatability Test RP_SNW_0.05g

 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
Calculation 1)	0.0499 %	0.0398 %
Assessment 2)	0.05 %	0.04 %
Requirement	0.10 %	0.10 %
Minimum Weight 3)	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.

All intermediate calculations are performed in the software to 16 decimal places.

¹⁾ The following value is calculated: 2 * standard deviation / smallest net weight. If the standard deviation s is 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 s is replaced by 0.41*d.

²⁾ The assessment is carried out after the calculated value is mathematically rounded to the readability of the requirement of 0.10 %.

³⁾ Minimum weight = 2000 * s. If the calculated standard deviation s is 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 s is replaced by 0.41*d. In this case, minimum weight = 2000 * 0.41*d.



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
		A
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_E2Date of Issue:04-JAN-2021Certificate Number:34567890Calibration Due Date:03-JAN-2023

Remarks

N/A