

Metrohm

Ion analysis

Metrohm Dosing Test (Linearity check)

Certificate-ID: K269_091120_1247.pdf

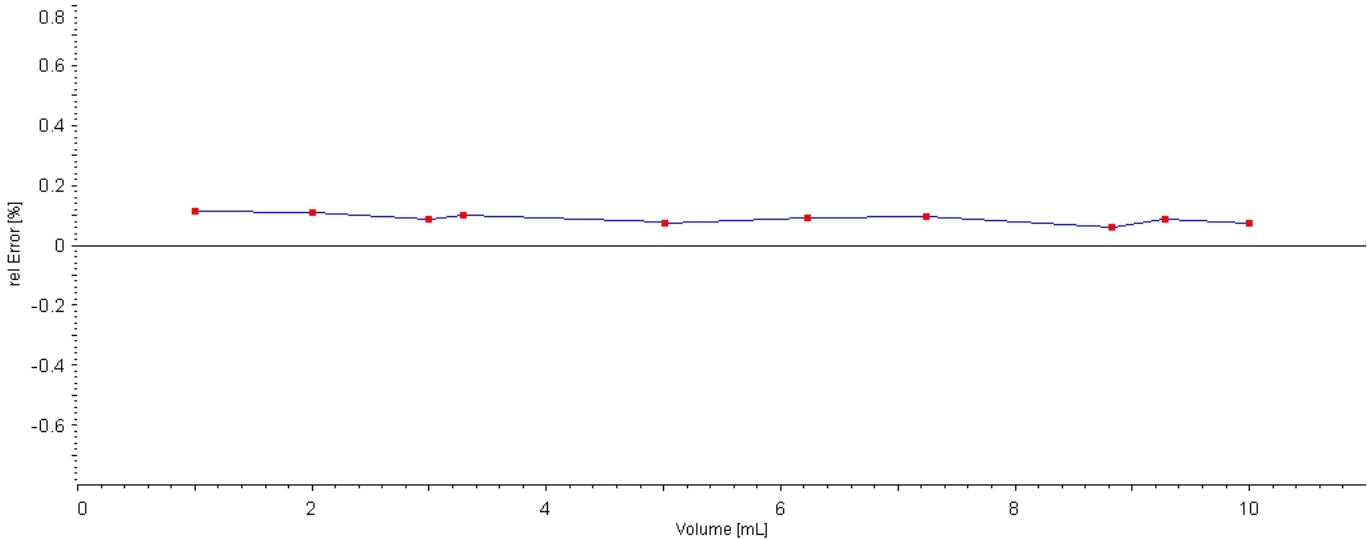
System components:

Buret unit ID:	EUK269	Cylinder type:	6.1518.210
Buret type:	Exchange Unit	Cylinder volume V_N :	10 mL Ex / 20 °C
Serial number:	00000000	Cylinder serial number:	026630
Instrument ID:	KFT-0747	Location:	QC Lab
Model:	Titrimo 787	Program version:	5.787.0010
Serial number:	09155	Dosing drive:	internal
Balance ID:	BP300S	Drive ID:	KFT-0747
Balance model:	Sartorius BA BP BPD	Type of drive:	internal
Serial number:	60506988	Serial number:	09155

Test parameters:

Temperature:	21.0 °C	Dosing rate:	16.667 mL/min
Barom. Pressure:	1002 mBar	Air density:	0.00119 g/mL
Density cal. weight:	8.000 g/mL	Correction factor Z:	1.00306 mL/g
Dosing mode:	cumulative	Density of liquid:	0.99799 g/mL

Results:



	Results	Limits
Slope:	1.0007	1 ±0.003
Y-Intercept:	0.49 µL	
Rel. Error _{max. Vol(V_N)} :	0.07 %	±0.2 %

Evaluation: This buret unit meets the requirements of the Metrohm Dosing Test

Time:	12:48:04 PM	Operator:	Tom Pickard
Date:	Nov 20, 2009	Reference #:	7802B506-GB (UK)-NE-Service-1

Signature: _____

Only valid with a copy of the "Certificate of Qualification" of the operator!

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Auxiliaries:

Thermometer ID:	NH9287001	Barometer ID:	NH11419002
Model:	110	Model:	P200AH
Supplier:	Testo	Supplier:	Digitron
Test liquid:	Water	Dosing tip ID:	Yellow
Type:	Distilled / DI	Model:	200uL
Supplier:	Customer	Supplier:	Eppendorf

Results:

Test volume [mL]	Mass m_i [g]	Volume _{real} V_i [mL]	Error _(abs.) E_{abs} [μ L]	Error _(rel.) E_{rel} [%]
1.000	0.9981	1.0012	1.15	0.12
2.007	2.0031	2.0092	2.23	0.11
2.995	2.9884	2.9975	2.54	0.08
3.294	3.2873	3.2974	3.35	0.10
5.010	4.9985	5.0138	3.79	0.08
6.229	6.2157	6.2347	5.71	0.09
7.239	7.2239	7.2460	6.99	0.10
8.826	8.8045	8.8314	5.43	0.06
9.277	9.2569	9.2852	8.21	0.09
10.000	9.9769	10.0074	7.41	0.07

Balance report:

	Reading [g]	Mass [g]	Time	Comment
m_0	57.181600			
m_1	58.179700	0.9981	12:45:24 PM	
m_2	59.184700	2.0031	12:45:36 PM	
m_3	60.170000	2.9884	12:45:48 PM	
m_4	60.468900	3.2873	12:45:58 PM	
m_5	62.180100	4.9985	12:46:13 PM	
m_6	63.397300	6.2157	12:46:25 PM	
m_7	64.405500	7.2239	12:46:37 PM	
m_8	65.986100	8.8045	12:46:51 PM	
m_9	66.438500	9.2569	12:47:01 PM	
m_{10}	67.158500	9.9769	12:47:15 PM	