

Micro Analytical Balances Pipette Accuracy Testing Kit

BM Series + BM-014

The BM-014 can be used with any model of the BM series (both 5 mL and 30 mL cups are provided). This setup is ideal if you also want to use the balance for purposes other than pipette accuracy testing as an ordinary analytical balance.



Recommended Models in Accordance With ISO8655

Pipette Nominal Volume ^{†1} (μL)	ISO8655 Requirements (Gravimetric Method)				Balance Readability mg	Recommended Models		
	Maximum Permissible Error							
	Accuracy (Systematic Error)		Repeatability (Random Error)					
$\pm\%$	$\pm\mu\text{L}$	%	μL					
1	5.0	0.05	5	0.05	0.001	BM-20/22 + BM-014		(\blacklozenge 2)
2	4.0	0.08	2	0.04				
5	2.5	0.125	1.5	0.075				
10	1.2	0.12	0.8	0.08				
20	1.0	0.2	0.5	0.1	0.01		BM-252 + BM-014	AD-4212B-PT
50	1.0	0.5	0.4	0.2				
100	0.8	0.8	0.3	0.3				
200	0.8	1.6	0.3	0.6	0.1	BM-200/300/500 + BM-014 or AD-4212A-PT		
500	0.8	4.0	0.3	1.5				
1000	0.8	8.0	0.3	3.0				
2000	0.8	16	0.3	6.0				
5000	0.8	40	0.3	15.0				
10000	0.6	60	0.3	30.0				
Daily inspection, simplified verification					1 \blacklozenge 3	FX-300i-PT		

\blacklozenge 1 The maximum volume selectable for variable volume pipettes

\blacklozenge 2 Please select the BM-20/22 + BM-014 if you will mainly use the 0.001 mg range, as it will provide much greater stability.

\blacklozenge 3 The minimum weighing value, 1 mg, approximately corresponds to 1 μL . If a pipette volume is 1000 μL , a test can be performed with a resolution of 0.1%. If 200 μL , 0.5%.

Note) Make sure that the measurement environment is free from vibration, drafts, rapid temperature/humidity changes, etc.