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Tech Note

Synergy™ H1 Shaking System

Maximum Shaking Amplitude Based on Assay Volume and Plate Type

Synergy H1 offers broad range of shaking speeds and amplitudes. If the wells of a microplate are almost full, shaking can result in spillage inside the instrument. The table below is designed to help prevent this. Select your microplate type, assay volume, and you will get the acceptable shake amplitude on your instrument.

Sample volume	Linear	Orbital slow	Orbital fast	Double orbital slow	Double orbital fast
6-well microplate					
0 to 3 mL	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm
3 to 4 mL	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 mm
4 to 5 mL	1 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 mm
5 to 7 mL	1 mm	1 to 6 mm	1 to 3 mm	1 mm	No
7 to 8 mL	1 mm	No	1 to 3 mm	No	No
9 mL	1 mm	No	No	No	No
12-well microplate					
0 to 1.5 mL	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm
1.5 –2.5 mL	1 to 2 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 mm
2.5 to 3 mL	1 to 2 mm	1 to 6 mm	No	No	1 mm
3 to 4 mL	No	1 to 6 mm	No	No	No
24-well microplate					
0 to 0.75 mL	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm
0.75 to 1 mL	1 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm
1 to 1.5 mL	1 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm	No
1.5 to 2 mL	1 mm	1 to 6 mm	No	1 to 6 mm	No
48-well microplate					
0 to 0.5 mL	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm
0.5 to 1 mL	1 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm
1 to 1.3 mL	No	1 to 6 mm	1 to 6 mm	1 to 6 mm	No
96-well microplate					
0 to 0.25 mL	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm	1 to 6 mm

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