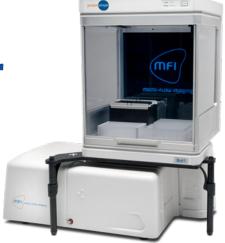


# Bot1 Autosampler for the MFI5000 Series Datasheet



## **Fully Automated Particle Analysis**

Want to streamline your particle analysis process so you can focus on more productive activities? Just add a Bot1 Autosampler to your MFI 5000 series, and you'll get walk-away automation and standardized sample handling.

## **Increase Throughput**

Run up to 90 samples compared to only 30 in a manual run. And since Bot1 eliminates manual labor, you'll have up to 5 more hours of free time!

## **Standardized Operation**

Automated sample delivery removes all the tedious effort of manual sample loading. Plus you'll get rid of variability so you can standardize your sampling process.

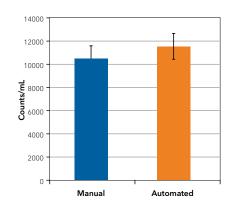
#### **Unattended operation**

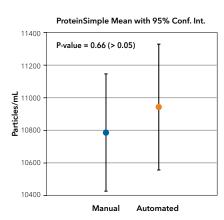
Walk-away automation lets you run all day and overnight. Automated protocols include all wash, rinse and sample handling steps — Bot1 does everything for you.

## Your Data, Only More Reproducible

Automated pipetting with liquid level sensing on the Bot1 gives you reproducible and consistent sampling. Take your pick of sampling formats — pipette from 1 or 2 mL deep-well plates and reservoirs.







**FIGURE 1.** Equivalent results for automated or manual sampling formats. Agitated BSA protein samples were tested on a MFI 5200 alone or with Bot1, and showed comparable results for count and concentration, by statistical analysis.

# **MFI 5000 Series with Bot1 Autosampler Specifications**

Use the MFI 5000 Series with Bot1 Autosampler for just about any sample type you may need to analyze.

Parameter	MFI 5000 with Bot1	MFI 5200 with Bot1
Size Range	2 μm to 300 μm - single optical configuration	1 μm to 70 μm - single optical configuration
Sample Analyzed/Volume Dispensed	>85% - entire size range	>85% - entire size range
Depth of Field (DOF)	400 µm	100 µm
Flow Cell Depth	400 μm - DOF matched	100 μm - DOF matched
Analysis Rate	200 μL/min	150 μL/min
Maximum Concentration (@ 2.5 μm)	175,000 particles/mL	150 μL/min
Software for System Operation	MVSS Software (21 CFR Part 11)	
Software for Analysis	MVSS and MVAS Software	
Pipetting Dispense Volume	50 - 1000 μL	
Liquid Level Sensing	Yes	
Pipette Mixing	Yes, using aspirate and dispense	
Automated Cleaning and Baseline	Yes	
Tray Capacity	4 full-size, 2 half-size, or 1 quarter-size SBS module	
Sample Format	1 and 2 mL 96 deep-well plates or reservoirs	
Sample Volume Requirement	Minimum 900 μL*	
Throughput	1-90 samples per day (unattended operation)	
Concentration	1-150 mg/mL for protein formulations	

<sup>\*</sup>Sample volume may be lower based on particle concentration and analysis method.

#### **Need More Information?**

Find out how other scientists use MFI to address regulatory questions on particle size, count and classification of biopharmaceuticals at: https://www.bio-techne.com/resources/webinars/view-all-webinars?tid\_1%5B402%5D=402

**Bot1 Autosampler for MFI 5000 Series:** part # P-0000012-00