

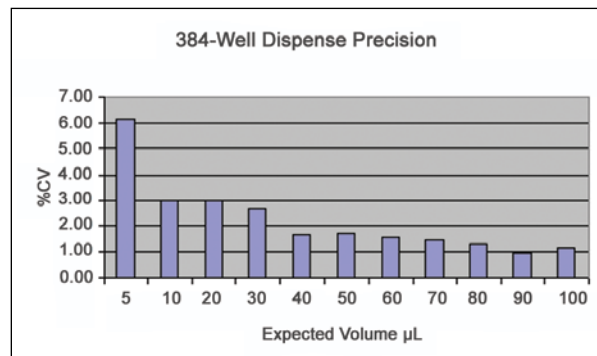
# MicroFill™ Microplate Dispenser

BioTek's MicroFill™ offers an economical, compact and reliable alternative to other microplate dispensers. The microprocessor-controlled syringe pump provides accurate and precise dispensing without the time-consuming recalibration, cassette replacement, and maintenance commonly associated with other dispensers.

Autoclavability of the entire fluid path is available for those applications requiring sterility. User-controlled dispense flow rates allow low- to high-velocity dispensing for both biochemical and cell-based assays in 24-, 96-, and 384-well standard and low-profile microplates. Deep well blocks are also accommodated with flexible volume ranges from 5  $\mu$ L to 6 mL per well.



## Superior Performance:



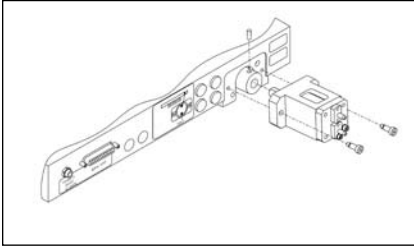
MicroFill repeatedly delivers reagents across a range of sample viscosities. Typical performance is 1.5% CV at 80  $\mu$ L.

## Features:

- 24-, 96-, and 384-well microplates
- Unique carrier design accommodates standard height and deep-well microplates
- Microprocessor-controlled syringe pump guarantees optimal precision and accuracy
- No calibration required
- Organic solvent compatible
- Up to 75 programs stored onboard
- Fully autoclavable fluid path
- Built-in maintenance routines
- Unattended operation with BioStack™ automation products or commercial robotic systems



## Sterile Fluid Path:



MicroFill's autoclavable syringe pump is quickly changed for guaranteed sterility and no reagent carryover.

## Typical Applications:

- Primary and secondary screening assays
- Compound storage
- Genomics and proteomics research
- Cell-based assays
- ELISAs

## Models:

AF1000A: MicroFill, 24-, 96-, and 384-well microplates and autoclavable fluid path.

See Web site or price list for complete model listings and descriptions.

## Optional Accessories:

- Manifold for 24-well microplates
- Manifold for 96-well half-area and PCR microplates
- Organic solvent tubing set
- Product Qualification Package
- BioStack™ Microplate Stacker

## Specifications:

### General

Number of reagents:	1
Microplate types:	24-, 96- and 384-wells in low profile, standard and deep well formats PCR plates Microtubes
Soak time:	Programmable in minutes and seconds, up to 60 minutes
Safety/convenience/maintenance:	Pre-programmed maintenance routines
Automation:	Compatible with BioStack™ and 3rd party automation
Onboard software:	Create, edit or run multiple protocols
Software:	Interface software ( <i>optional</i> ) for robotic system integration

### Dispensing – Syringe Pump

Dispensing speed:	10 µL/well, 96 wells, 1x16: 4 sec 5 µL/well, 384 wells, 1x16: 7 sec
Manifold types:	<u>24-well dispensing:</u> One 8-tube (1 x 8) manifold – 316 stainless steel tubes <u>96-well dispensing:</u> One 8-tube (1 x 8) manifold – 316 stainless steel tubes <u>96-/384-well dispensing:</u> One 16-tube (1 x 16) manifold – 316 stainless steel tubes
Volume range:	5 – 6,000 µL/well ( <i>manifold dependent</i> )
Fluid delivery:	One positive displacement syringe drive
Flow rates:	1 – 5
Dispense accuracy:	±1 µL typical at 5 µL ±1 µL typical at 20 µL ±1% typical at 100 µL
Dispense precision:	≤5% CV typical at 5 µL ≤2.5% CV typical at 20 µL ≤1% CV typical at 100 µL
Minimum prime volume:	10 mL
Supply bottle:	1 L
Sterilization:	<u>Autoclave:</u> Up to 50 cycles at temperatures and pressures of 121°C and 1 bar (750 mmHg) <u>Chemical:</u> 70% ethyl or isopropyl alcohol and 0.5% sodium hypochlorite solution

### Physical Characteristics

Power:	100 – 240 Volts AC 50/60 Hz
Dimensions:	18" D x 15" W x 7"H (46 cm x 38 cm x 18 cm)
Weight:	20 lbs (8.9 kg)

### Regulatory

For In Vitro Diagnostic use. All BioTek microplate instrumentation is CE and TUV marked.

\*Specifications subject to change



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