

BD™ High Throughput Sampler (HTS) Option for the BD LSRFortessa™ Flow Cytometer

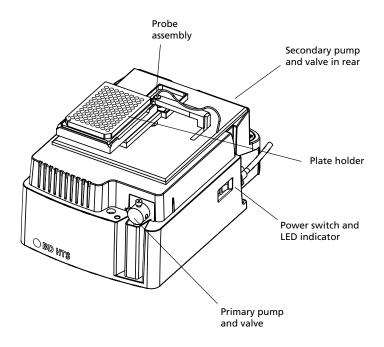
Technical Specifications

To improve experimental workflow, the BD™ High Throughput Sampler (HTS) option for the BD LSRFortessa™ cell analyzer provides rapid, fully automated sample acquisition from microtiter plates. In high-throughput mode, the HTS can process a 96-well plate in fewer than 15 minutes. Standard throughput mode can be selected for acquisition of larger sample volumes.

Fast acquisition speed is achieved by synchronizing two high-precision pumps for sample mixing, sample injection, and probe washing. Even with the high acquisition speed, carryover tolerances from one well to the next are less than 0.5%.* Low carryover is essential in research applications to ensure sample purity and data integrity.

The HTS option supports a wide range of research applications and is compatible with 96-well U, V, and flat-bottom plates as well as 384-well microtiter plates. BD FACSDivaTM software allows you to create customized delivery protocols to be used multiple times with user-defined mixing, wash, and analysis parameters.

For more information about the HTS option or other quality products from BD Biosciences, please contact your local sales representative or visit bdbiosciences.com



Performance

Acquisition time (96-well plate)

<15 minutes in HT mode (2-second acquisition) <44 minutes in STD mode

(10-second acquisition)

Carryover[†]

<0.5% in HT mode <0.75% in STD mode

Adjustable settings

Sample mixing

• Sample of each well is mixed prior to acquisition

• Mixing volume: 5-100 µL • Mixing speed: 25–250 μL/s

• Number of mixes: 0-5

Probe wash volume: 200-800 µL Sample volume: 2–10 µL (HT mode) 2-100 µL (STD mode)

Workstation[‡]

Data management software

BD FACSDiva v6.2 or later

Operating system

Windows® XP Professional SP3

Processor

Intel® Core™ 2 Duo processor, 3.0 GHz

HP 2 GB (2 x 1 GB) DDR2-800 ECC

Hard drives

HP 80 GB SATA/3 Gb/s 7200 RPM HD (1st slot)

HP 250 GB SATA/3 Gb/s NCQ 7200 RPM HD (2nd slot)

DVD drive

HP 16x DVD+/-RW, SuperMulti SATA

Networking

Integrated Broadcom Gigabit 10/100/1000 ethernet

Broadcom 5751 NetXtreme® Gigabit PCIE NIC Ethernet

Fluidics

Plate/tube compatibility

The HTS option allows quick conversion between tubes and plates 384-well plates (flat bottom)

96-well plates (U, V, and flat bottom)

Sampling modes

High-throughput (HT) Standard (STD)

Sampling volume (range)

2-10 μL in HT mode 2-200 µL in STD mode

Total aspirated volume

22 µL (HT mode)

Excess aspiration volume

20 µL (STD mode)

Cleaning cycles

Automated daily and monthly cleaning protocols

Sheath and waste reservoirs

The HTS uses the existing BD LSRFortessa sheath and waste tanks.

Options

Extended fluidics option

BD FACSFlowTM supply system for BD LSRFortessa and BDTM LSR II

Automated fluidics system includes rolling cart and two 20-L Cubitainer® packages (Cat. No. 649908)

Consumables

Compatible BD Falcon™ Microtiter Plates

96-well U bottom (Cat. No. 353910) 96-well V bottom (Cat. No. 353263) 96-well flat bottom (Cat. No. 353915) 384-well flat bottom (Cat. No. 353233)

Sheath Fluid

BD FACSFlow TM sheath fluid, 20-L (Cat. No. 342003)

BD FACSTM sheath solution with surfactant, 20-L (Cat. No. 336524)§

HTS Customer Care Kit

Compatible with BD LSRFortessa, BD LSR II, and BD FACSCalibur (Cat. No. 644788)

Installation Requirements

Size (W x D x H)

9.5 x 17.5 x 8 in. (24.1 x 44.5 x 20.3 cm)

Optional mounting on front or side

Weight

23 lb (10.4 kg)

Noise level

Idle mode <60 dBA Run mode <75 dBA

Operating range (environmental conditions)

18-30°C (64.4-86°F)

15-70% relative humidity

Power

100-240 VAC

Regulatory Certifications

UL, CE, CSA

Training

Interactive online tutorial
Web address: bdbiosciences.com/training

Service Support

Depot repair service (where available)

Class 1 Laser Product

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

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