

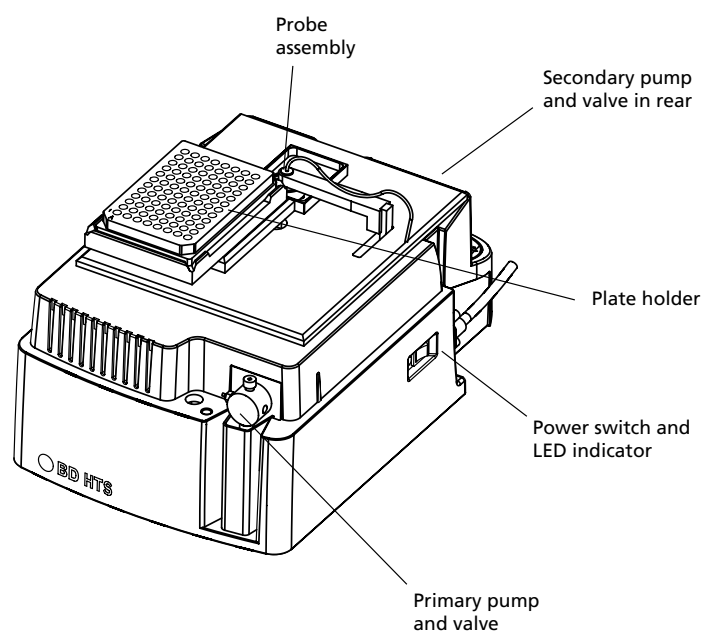
High Throughput Sampler (HTS) option for the BD FACSCalibur flow cytometer

Technical Specifications

Using the BD™ High Throughput Sampler (HTS) option, you can rapidly acquire samples with the BD FACSCalibur™ flow cytometer in a microtiter plate. As a modular option for new or existing BD FACSCalibur flow cytometers, the HTS is designed to speed through a variety of microtiter plates in less than 15 minutes* and support a wide range of applications including the BD™ Cytometric Bead Assay. The HTS option supports 96-well U-, V-, and flatbottom plates as well as 384-well microtiter plates.

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 are less than 1%.‡ BD™ PlateManager 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.



BD FACSCalibur High Throughput Sampler Option

Physical Characteristics

Size

9.5 x 17.5 x 8 inches (W x D x H)
(24.1 x 44.5 x 20.3 cm)

Requires 12 inches (30 cm) of table space in front of the instrument

Weight

23 lb (12.7 kg)

Noise level

Idle mode <60 dBA

Run mode <75 dBA

Operating range (environmental conditions)

18–30°C

15–70% relative humidity

Power

100–240 VAC

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)

Clean cycles

Automated daily and monthly cleaning protocols

Sheath and waste reservoirs

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

Extended sheath supply option

BD FACSTFlow™ sheath fluid
(Cat. No. 349467; Europe 349277)

Recommended sheath fluid

BD FACST™ sheath solution with surfactant
(Cat. No. 346524; Europe 336911)

Performance

Throughput

<15 minutes in HT mode
(2 sec acquisition)

<44 minutes in STD mode
(10 sec acquisition)

Carryover†

<1% in HT mode

<1% 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/sec
- Number of mixes: 0–5

Probe wash volume: 200–800 µL

Sample volume: 2–10 µL (HT mode)

2–100 µL (STD mode)

Computer Compatibility

Compatible software

Mac® OS 10.5

BD CellQuest™ Pro software v6.0 or later

Compatible computers

BD FACStation™ MacPro computer or a 2.8 GHz Quad-core Intel Xeon processor, 2 GB memory and 320 GB storage

Hard disk space

Requires a USB port on the BD FACStation workstation or hub for HTS hardware/FACStation communication

Data management

Integrated with BD CellQuest Pro software

Statistical display in BD PlateManager software

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)

Regulatory certifications

UL, CE, CSA

Training

Interactive online tutorial

Web address: bdbiosciences.com/training

Service Support

Depot repair service (where available)

* Based on a 2-second sample acquisition.

† In high-throughput mode.

‡ Carryover based on testing performed with beads and peripheral blood mononuclear cells.

Other cell types may require optimization of HTS parameters.

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