The new BD™ High Throughput Sampler (HTS) provides fully automated and rapid sample acquisition. It is designed to speed through a microtiter plate in 15 minutes* with sample carryover tolerances of 1% or less†. The BD HTS adapts to the BD FACSCanto flow cytometer within a few hours, making it a fully modular system. It supports standard 96-well U-, V-, and flat-bottom, and 384-well flat bottom plates.

Fast acquisition speed is achieved by synchronizing two high-precision pumps for sample mixing, sample injection, and probe washing‡. You can choose a standard throughput mode to allow for acquisition of larger sample volumes. All sampler functions are operated through BD FACS Diva™ software, allowing you to create customized delivery protocols with user-defined mixing, wash, and analysis parameters.

For more information about the BD FACSCanto High Throughput Sampler option or other quality products from BD Biosciences, please contact your local sales representative or call one of the locations listed on the back.

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 10 inches (25 cm) of table space in front of the instrument
- **Weight**
  23 lb (12.7 kg)
- **Noise level**
  Idle mode <60dBA
  Run mode <75dBA
- **Environmental conditions**
  18-30° C
  15-70% relative humidity
- **Power**
  100-240VAC

Fluidics
- **Plate/tube compatibility**
The HTS option allows quick conversion between tubes and plates.
- **Sampling modes**
  High-throughput (HT)
  Standard throughput (STD)
  If desired, the sample introduction can be temporarily switched to manual mode for loading tubes.
- **Sampling volume (range)**
  2-10 uL in HT mode
  2-200 uL in STD mode
- **Total aspirated volume**
  22 uL in HT mode
  22-200 uL in STD mode
- **Cleaning cycles**
  Automated cleaning protocols
- **Sheath, waste, and cleaning reservoirs**
The HTS integrates into the BD FACSCanto fluidics cart

Recommended sheath solution
BD FACSTM sheath solution with surfactant (Cat. No. 346524; Europe 336911)
Performance

Throughput
- <15 min in HT mode using a 2 sec acquisition
- <44 min in STD mode using a 10 sec acquisition

Carryover‡
- <1%

User-adjustable settings
- Sample volume
  - Samples of each well are mixed prior to acquisition
  - Mixing volume 5-100 uL
  - Mixing speed 25-250 uL/sec
  - Number of mixes 0-5
  - Probe wash volume 200-800 uL
- Sample volume 2-10 uL in HD mode
- Sample volume 2-200 uL in STD mode

Computer Compatibility

Compatible software
- BD FACSDiva software version 5.0 or higher

Compatible computer
- BD PC workstation (RAM 2GB)
- Windows® XP (SP2) and Windows 2000 (SP4)

Data management
- Integrated with BD FACSDiva version 5.0 software (available May 2006)
- Keyword display in BD FACSDiva software
- Compatible with Waters® NuGenesis® SDMS (optional)

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
- For research use only. Not for use in diagnostic or therapeutic procedures.

Service Support
- Depot repair service (where available)

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* Based on a 2-sec acquisition in HT mode
† In high-throughput mode
‡ Carryover based on testing performed with beads. Other sample types may require optimization of HTS parameters.

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