GEMINI – Two-Plate – Compact Microplate Processor

TUBE IN - RESULT OUT

The Gemini is a fully automated microplate processor for low throughput applications.

- Total walk away system
- Flexible time management with LIS connectivity
- Modularity open system
- Ease of use, installation and maintenance
- Disposable tips possess liquid level detection capabilities
- · High process safety with triple pipetting control
- Convenient programming of assay protocols
- Proven reliability
- EN ISO 13485 and FDA QSR compliant

Key Features:

Reading:

- Absorbance reader with up to 8 different filters
- Single or dual wavelength reading
- End point and kinetics
- Shaking

Incubation:

- Two independently controlled incubator chambers (up to 45°C) with shaking (20 Hz)
- Three room temperature incubation chambers

Washing:

- 2 x 8-channel washer (aspirate and dispense)
- Three wash buffer bottles
- Sweep mode, soak, top and bottom wash, variable pump speed

Ease and flexibility:

- Flexible scheduling of up to three plates
- Graphical assay protocol editor
- Combination of multiple assays on one plate
- Proven software reliability
- Bi-directional LIS connectivity, ideal with random access instruments
- Based on established EIA software platform with more than 3,000 placements worldwide



Safety and in-process control:

- Combined pipetting pressure monitoring
- Capacitive liquid level detection for optimal identification of fibrin clots and insufficient volume
- Colorimetric dispense verification
- · Positive identification of samples and reagents

Capacity and throughput:

- Initial loading of up to 192 samples
- Continuous loading
- Three disposable tip rack positions
- Two deep-well plates positions for pre-dilution and / or archiving

Pipetting:

- Liquid pipettor for disposable tips (300 μ l or 1100 μ l)
- Flexible programming for single pipetting, multiple pipetting, multiple consecutive dilution steps and mixing

For further information call 1 800 701-7450



GEMINI Specifications

Dimensions

Depth 66 cm (26 in) Width 97 cm (38.2 in) Height 75 cm (29.5 in)

Sample and reagent capacity

Up to 192 samples
Flexible: e.g. 144 samples + 8 reagents + 16 controls

Reader

Photometric range: -0.1 to 3.0 OD Spectral range: 400 nm to 700 nm (up to 8 filters) Read time: <15 sec single, <30 sec dual

Precision: 1% CV at 1.0 OD

Accuracy: ± 0.005 OD or 2.5% (whichever is greater)

Linearity: 0 to 2.000 OD \pm 1%

Pipettoi

Min / max. volumes: 10 μ l to 300 μ l with 300 μ l tip 301 μ l to 1000 μ l with 1100 μ l tip Precision (single dispense): < 6% CV at 20 μ l < 3% CV at 100 μ l

Precision (multi dispense): < 10% CV at 16 x 20 μl < 5% CV at 8 x 100 μl

Features: Tip detection, mixing, multiple consecutive dilution steps, capacitive liquid level detection, aspiration pressure monitoring

Incubator

Temperature range: Ambient $+7^{\circ}$ C up to 45° C Temperature uniformity: $\pm 1.5^{\circ}$ C (with in-process temperature monitoring) Shaking: 20 Hz

Washe

Precision: 10% CV at 300 μ l Residual volume: <2.5 μ l in U-bottom <4 μ l in flat bottom Wash buffer capacity: 3 wash buffers Modes: Sweep mode, soak, top & bottom wash, variable pump speed