

New chapter of cell washing

◆◆◆◆◆◆◆◆◆◆ Simultaneous treatment of 384/96 well plate ◆◆◆◆◆◆◆◆◆◆
Automatic Plate Washer

CellSurfer MW-384CS

New Release



Specifications

Dispense head	96/384ch independent syringe/needle nozzle
Suction head	96/384ch independent syringe/needle nozzle
Reagent tray	Automatic supply, one tray
Head rinse	Overflow washing, one tray
Panel	LCD touch panel
User program	Maximum 99
Ambient	10 ~ +50°C (None Dewfall) , humidity less than 85%
Dimension	750 (W) ×500 (D) ×520mm (H) .
Weight	80kg.
Power	AC100V ~240V, 150VA

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MW-384CS



CellSurfer pursues the highest milieu of cell washing

For 96-well and 384-well microplates, the damage induced to cells by liquid replacement will be brought to the lowest when cell culture medium is replaced, or staining solution dispense.

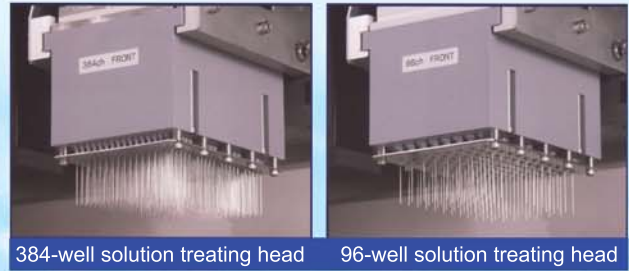
Syringe dispense and aspiration with each well treated independently for 96/384 well plate

On the base that no cell decoherence will be induced, soft dispense device is used, and high precision of professional dropping device can also be adopted.

Respective devices are used for liquid dispense and aspiration to realize high speed treatment.

A tilt angle of 15° is allowed for liquid dispense/aspiration head/microplate working station.

Microplate tilt can make the residual solution aggregate to the well wall, and realize highly efficient solution aspiration. When dispense solution,



Other functions

The washing liquid is supplied automatically by the pump, while liquid detection sensor is matched for storage tank.

Drain tank for waste liquid and washing tank for overflow.

Supply of communicating function for linkage of microplate stacked arm and related external device.

Touch display can enter and record 99 user procedures and 30 microplate lists.

Application example

The product has been applied to chromosome immersion and cleansing cells after dyeing on 96/384 Plate Format Assay.

Replacement of culture medium for 96/384 well Plate Format cell culture.

Cleansing project for 96/384 well Plate Format Cell-ELISA

Experimental results of biological cell decoherence

After 384 well microplate inoculated with biological cells is treated by CellSurfer, the wide-angle CCD is applied to conduct image analysis

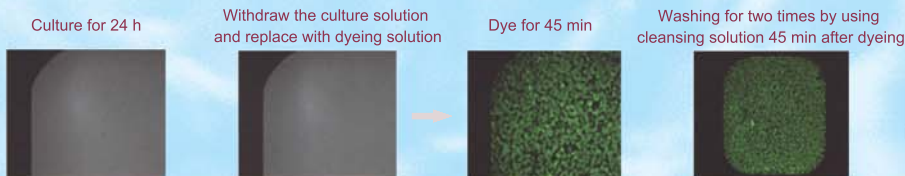
1. After culture for 24h, aspirate culture solution and dispense dyeing solution
2. Washing two times by using washing liquid 45 min after dyeing

Conditions: Microplate: Corning 384 3985 (Black clear bottom Surface treatment: Poly-D-Lysine Coat)

Cell: HEK 293 10000, culture for 24 h

Florescent pigment: Fluo4-AM 5 μm, dye for 45 min

Detection device: HAMAMATSU Photonics FDSS/1MACS-Lab



No cell decoherence is observed in operations 1 and 2

Conditions: Microplate: Corning 384 3985 (Black clear bottom Surface treatment: Poly-D-Lysine Coat)

Cell: SH-SY5Y 10000个, culture for 24 h

Florescent pigment: Fluo4-AM 5μM, dye for 45 min

Detection device: HAMAMATSU Photonics FDSS/1MACS-Lab



No cell decoherence is observed in operations 1 and 2