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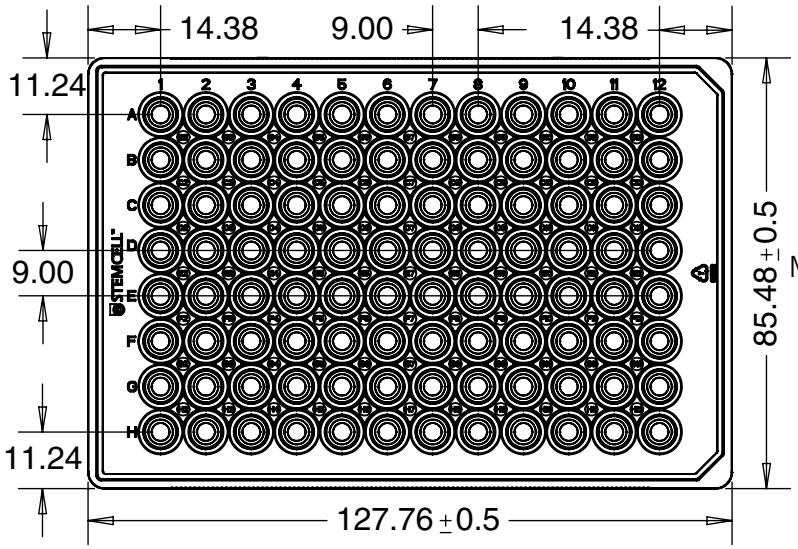
Organoid Culture Plates, 96 Wells

Customer Drawing

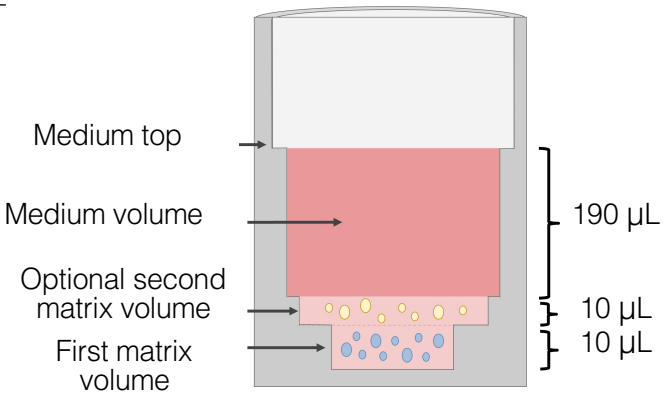
Catalog #200-0562 (5 Plates)

For recommended image settings, please refer to Table 2.

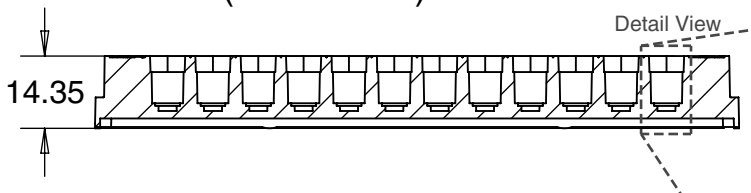
Top View



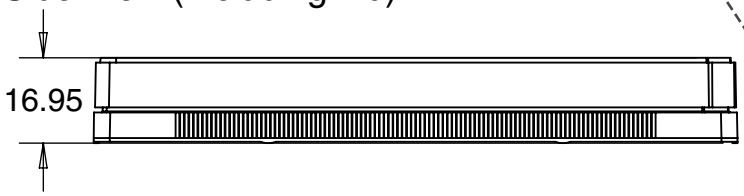
Well Features



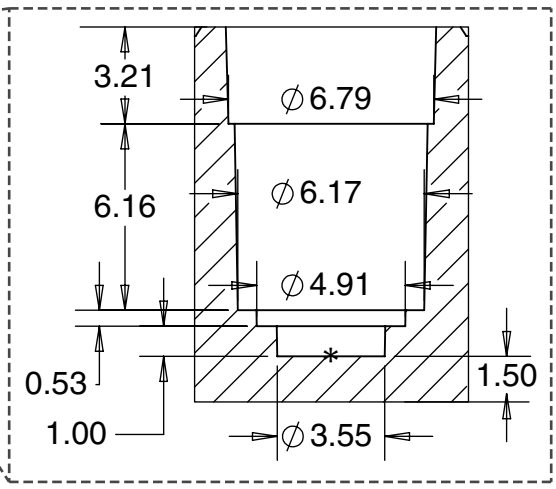
Section View (Without Lid)



Side View (Including Lid)



Well Section View



Note: The Dimensions in the drawing are in millimeters [mm] and are nominal to an unused plate at room temperature. The offset point used in Table 3 and 4 is found on the Well Section View and is denoted *. This product drawing is the sole property of STEMCELL Technologies Inc. and is subject to change.

Plate Properties

Table 1. Properties

PROPERTY	VALUE
Surface treatment	None
Plate material	Medical grade PMMA
Refractive index	1.49
Sterilization method	Electron beam irradiated
ANSI standard	ANSI/SLAS 1,2,3,4-2004
Tested operating conditions	-20°C to 55°C

Recommended Image Settings

Table 2. Settings

DIMENSION	VALUE [mm]
Well to well spacing	9.02
A1 left wall offset	14.41
A1 top wall offset	11.26
Suggested imaging diameter	3.85
Well bottom to plate skirt bottom	1.95
Well bottom thickness	1.5

Note: The plate is symmetric so the H12 offsets are equivalent to the A1 offsets (center of well). The recommended image settings account for dimensional changes during plate incubation.

Liquid Handling Recommendations

Table 3. Suggested Liquid Handling Settings for a Single Matrix Layer Culture

OPERATION	VOLUME	SPEED	BOTTOM OFFSET	RADIAL OFFSET
Matrix dispense	10 µL	10 µL/s	0.5 mm	1 mm
Medium dispense	200 µL	12.5 µL/s	7 mm	3 mm
Medium aspirate	200 µL	12.5 µL/s	1.3 mm	2.1 mm

Table 4. Suggested Liquid Handling Settings for a Double Matrix Layer Culture

OPERATION	VOLUME	SPEED	BOTTOM OFFSET	RADIAL OFFSET
First matrix dispense	10 µL	10 µL/s	0.5 mm	1 mm
Second matrix dispense	10 µL	10 µL/s	1.3 mm	2.1 mm
Medium dispense	190 µL	12.5 µL/s	7 mm	3 mm
Medium aspirate	190 µL	12.5 µL/s	See note	See note

Note: To avoid disturbing the second matrix layer during aspiration it is suggested to tilt the plate at 5 degrees and pipette from the corner of the medium volume.