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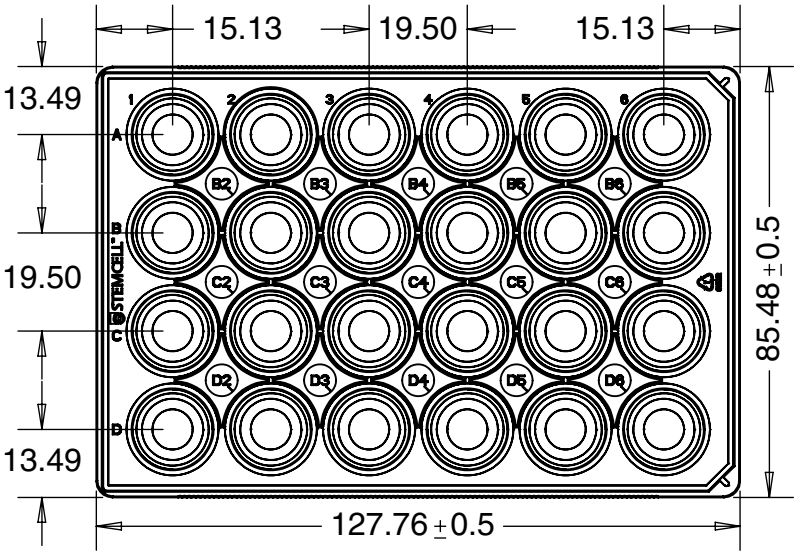
Organoid Culture Plates, 24 Wells

Customer Drawing

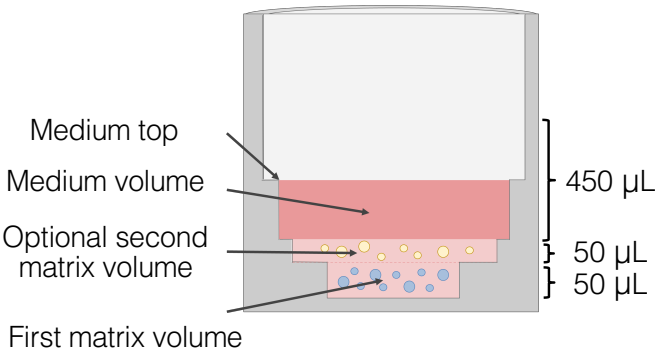
Catalog #200-0561 (5 Plates)

For recommended image settings, please refer to Table 2.

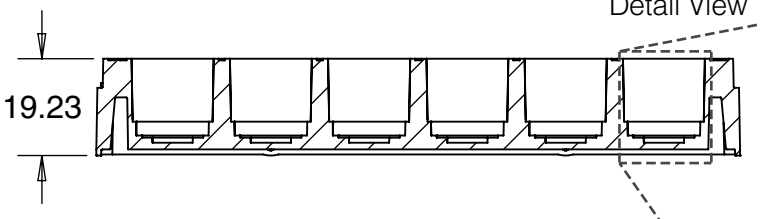
Top View



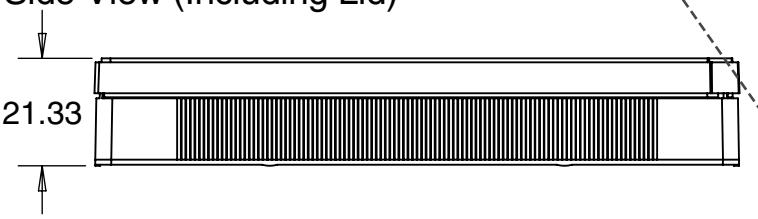
Well Features



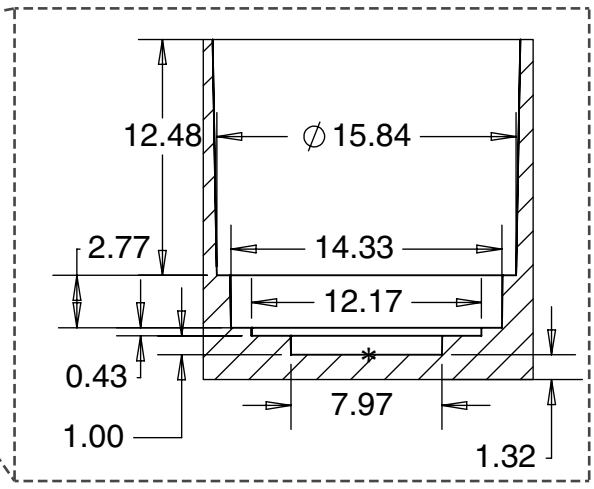
Section View (Without Lid)



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.

DOCUMENT #10000032954 | VERSION 00

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	19.54
A1 left wall offset	15.16
A1 top wall offset	13.52
Suggested imaging diameter	8.27
Well bottom to plate skirt bottom	1.23
Well bottom thickness	1.32

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	50 µL	50 µL/s	0.5 mm	3.2 mm
Medium dispense	500 µL	125 µL/s	3.5 mm	6.7 mm
Medium aspirate	500 µL	125 µL/s	1.2 mm	5.7 mm

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

OPERATION	VOLUME	SPEED	BOTTOM OFFSET	RADIAL OFFSET
First matrix dispense	50 µL	50 µL/s	0.5 mm	3.2 mm
Second matrix dispense	50 µL	50 µL/s	1.2 mm	5.7 mm
Medium dispense	450 µL	125 µL/s	3.5 mm	6.7 mm
Medium aspirate	450 µL	125 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.