

<b>CORNING</b>	<b>Life Sciences</b>	Rev.: <b>2</b>
Description (Class): <b>Customer Technical Data Sheet – 96 Well Microplates – Falcon®, Corning® PureCoat™ and Corning BioCoat™</b>		Document Number: <b>LSR00181</b>
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**Applications:**

96 well Falcon, Corning BioCoat and Corning PureCoat microplates are used for the growth and study of cells in monolayer culture.

Falcon features tissue culture-treated surface produced using vacuum gas plasma treatment. This permanent modification of the growth surface incorporates negatively charged functional groups that create a hydrophilic (wetable) surface for cell attachment. The highly controlled vacuum gas plasma treatment creates a consistent well-to-well and plate-to-plate growth surface.

Corning BioCoat features biological coatings of highly purified extracellular matrix (ECM) proteins for the cell culture of more complex cell models, to include transformed cell lines, transfected cells, as well as a variety of primary and stem cells.

Corning PureCoat features a chemically-defined and synthetic surface appropriate for a broad range of cell types (primary cells and transformed cell lines) and applications, especially those requiring serum-free or serum-reduced culture environment. Corning PureCoat Amine has a positive charge.

**Features:**

- Best in class cell adhesion for various applications and cell types with established surfaces (Falcon tissue culture-treated and Corning BioCoat biological coatings) and innovative new synthetic surface chemistries (Corning PureCoat).
- Controlled cell proliferation and differentiation by biological surfaces such as extracellular matrix coatings
- Superior consistency with well-to-well CV values  $\leq 10\%$  (intra-plate and inter-plate)
- Optically clear bottom ideal for producing superior image quality
- Minimized cross talk well-to-well for superior data points
- Stackable design for enhanced stability
- Lid design allows for optimal gas exchange with lowest possible evaporation and no cross contamination
- Alphanumeric well coding
- Compatible with automation systems (meets ANSI/SBS standards)
- Bar-coding available on request

**Restrictions:**

- In general, for use with aqueous reagents used for tissue culture.
- Refer to “Thermoplastics Properties Chart”, available at:  
[http://catalog2.corning.com/lifesciences/media/pdf/an\\_DL\\_226\\_Falcon\\_ThermoPlastics\\_Broch.pdf](http://catalog2.corning.com/lifesciences/media/pdf/an_DL_226_Falcon_ThermoPlastics_Broch.pdf)

**Sterility:**

- Falcon: Gamma Irradiated
- Corning BioCoat: Tested and found negative for bacteria, fungi and microplasma
- Corning PureCoat: Sterile SAL  $10^{-6}$  by gamma radiation

**Regulatory Compliance:**

Falcon products are manufactured under the current ISO 9001 and the current FDA Quality System Regulation 21 CFR Section 820.

**Material:**

- Polystyrene

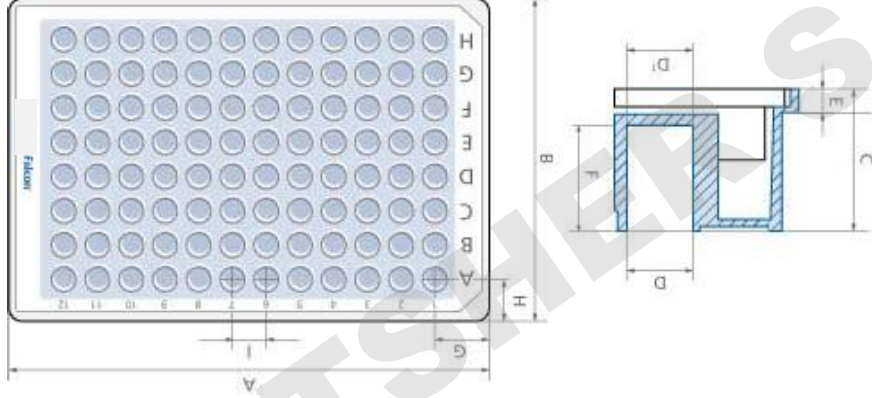
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Basic Key Dimensions																
Product	A	B	C	D	D'	E	F	G	H	I						
Falcon TC Cat. No.	Plate bottom length	Plate bottom width	Plate height	Well top diameter	Well bottom diameter	Flange	Well depth	Left edge to center	Top edge to center	Well center to center	Bottom thickness	Well bottom shape	Total volume	Working volume	Growth area	Upper well shape
353072, 353916	354407, 354429	354481, 354516	354807, 356407	14.30	6.85	6.35	6.10	10.76	14.37	11.34	8.99	Flat	370 µl	40-275 µl	31.60 mm <sup>2</sup>	Round
353075	354409, 354410	354481, 354516	354807, 356407	14.30	6.85	6.35	6.10	10.76	14.40	11.42	8.98	Flat	370 µl	40-275 µl	31.60 mm <sup>2</sup>	Round
353296	354419, 354820	356519, 356820	354419, 354820	14.25	6.73	5.68	6.10	10.59	14.38	11.39	8.99	Flat	300 µl	50-200 µl	25.40 mm <sup>2</sup>	Round
	354650, 354651	356650, 356651	354650, 354651	14.66	6.35	6.17	6.00	11.50	14.42	11.19	*	Flat	340 µl	100-250 µl	30.29 mm <sup>2</sup>	Round
	356640, 356649	356717, 356717	356640, 356649	14.53	6.35	6.17	14.53	11.50	14.40	11.23	9.01	Flat	340 µl	100-250 µl	30.29 mm <sup>2</sup>	Round
353376				14.40	6.96	6.58	2.50	10.90	14.38	11.24	9.00	Flat	392 µl	25-340 µl	34.00 mm <sup>2</sup>	Round
353077, 353227	351177	353910		14.30	6.85	6.35	6.10	10.59	14.38	11.39	8.99	Round	320 µl	50-250 µl	*	Round
353219, 353377				14.40	6.96	6.58	2.50	10.90	14.38	11.24	9.00	Flat	392 µl	25-340 µl	34.00 mm <sup>2</sup>	Round
				14.35	6.75	6.45	2.49	11.86	14.23	11.33	8.99	Round	340 µl	60-200 µl aqueous	*	Round
				14.61	6.96	*	2.50	10.90	14.24	11.35	9.00	Conica	340 µl	100-250 µl	*	Round
353263				85.59	14.61	6.96										



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