

STRATYX™ 250

Stratyx™ 250 mL Vessel Product Technical Specifications

The Stratyx 250 mL single use bioreactor vessel with syringe pack and inoculation kit.



Vessel Geometry

Specification	Detail
Wetted materials	All polymeric components in contact with process fluids meet requirements for biological activity from at least one of the following: USP <87>; USP<88> (Class VI); ISO 10993-5; or ISO 10993-6 and 10993-11 and ISO 10993-10/23
Vessel H:D ratio at max working volume	1:1
Total volume	470 mL
Working Volume Maximum	250 mL
Working Volume Minimum	100 mL
Turndown ratio	2.5

Impeller Geometry

Specification	Detail
Impeller type	2 count, 3-blade, 45° pitch
Impeller diameter	23.6 mm
Impeller spacing	30 mm
Bottom impeller distance from bottom	21.5 mm
Baffle intrusion	6.0 mm (~1/12 vessel diameter)
Baffle count	4
Power Number	3.4 upflow and downflow
Agitation range	0-1000 rpm
Mixing time (t_{90})	<30

Sparge Specifications

Specification	Detail
Sparger type	Open pipe L-shape
Sparger opening	1.0 mm
Sparger position	Below impeller

NOTE: For additional sensor specifications, please see Culture Biosciences' technical specifications for the Stratyx 250 System.

Syringe Specifications

Specification	Detail
Pump Type	Syringe/Positive Displacement
Syringe Capacity (mL) Syringe Pack	100, 50, 10, 50, 100
Syringe capacity (mL) Inoculation	20

Autofiller Dip Tube Cap

Specification	Detail
Tubing Size	1/16" ID x 1/8" OD
Cap size	GL-45

Wetted Materials

Specification	Detail
<p>All polymeric components in contact with process fluids meet requirements for biological reactivity from at least one of the following: United States Pharmacopeia USP <87>; USP <88> (Class VI); ISO 10993-5; or ISO 10993-6 and 10993-11 and ISO 10993-10/23.</p> <p>All materials are free of animal derived components or comply with EMA/410/01.</p> <p>Polymer(s) included: Polycarbonate, polypropylene, nylon, silicone, and C-flex</p>	

Sterilization

Specification	Detail
Sterilization Method	Gamma irradiation
Radiation dosage	25-40 kGy