







STAINLESS STEEL BIOREACTOR



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easy t

Aseptic sampling

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[3] Tank with jacket temperature control, mixing, ventilation, and

exhaust

[5] Feeding, Alkali addition, inoculation, discharge, sampling system, etc



[4] Can realize tank pressure, temperature, pH, dissolved oxygen, stirring speed, ventilation flow rate online detection, and real-time recording. It also offers automatic control and an automatic feeding function

[6] The overall equipment is designed and manufactured in accordance with the requirements of relevant regulations and guidelines

PRODUCT PARAMETER

| | | Pilot scale stainless steel bioreactor/f |
|--|---|--|
| | Microbial fermenter volume and agitation type | 30L-200L Top/bottom magnetic coupling mixing/ |
| | Cell Culture Bioreactor Volume Stirring Type | 30L-200L Top/bottom magnetic coupling mixing/ |
| | Specificities | •Optional lid lifter •Standard with PLC controller |
| | | 316L stainless steel tank with sight mirror, stainles corresponding ports for ventilation, feeding, sens pressure safety device (burst disc) |
| | | Tank surface mirror polishing Ra<0.8µm: tank and Optional automatic/manual in-place cleaning (Cli |
| | | pH, DO, temperature, cell density (optional), mixir for users to add functional modules according to |
| | Appliance | Scale-up study/Small-scale production/Medium of fed-batch, perfusion and continuous culture |
| | Field of application | Human/veterinary vaccines, monoclonal antibodi and manufacturing. |



CFD simulation **Determine process requirements**

1.Shear - turbulent kinetic energy, shear force simulation, cycle time 2.Mixing - mixing time simulation 3.Precipitation - gas-solid two-phase flow, minimum suspension speed 4.Mass transfer - gas-liquid two-phase flow, mass transfer coefficient

Four-valve manifold

Magnetic stirring module

Speed range: TBD

Other items optional

Production-scale stainless steel tank bioreactor ermenter 200L-30000L mechanical mixing mechanical mixing mechanical mixing 200L-5000L magnetic coupling mixing/mechanical mixing DCS control system PLC controller Configuration platform

ess steel top, upper side, lower side and bottom of the tank are equipped with sor interface, sampling and harvesting/draining, etc. Tank with pressure gauge and

d pipe surface electrolytic polishing Ra<0.4µm

IP)

ng, foam and other control loop modular design and system flexibility, convenient the requirements of the process

optimization/Cell culture and microbial fermentation/Process optimization/Batch,

ies, genetically engineered drugs, and synthetic biology R&D, pilot testing,