



SUPR

Single-use Production bioReactor

Ease your process with SUPR

GETINGE 

Features & Benefits of Single-use

Addressing user challenges

Easy to use, saving
time

No risk of cross-
contamination
between products

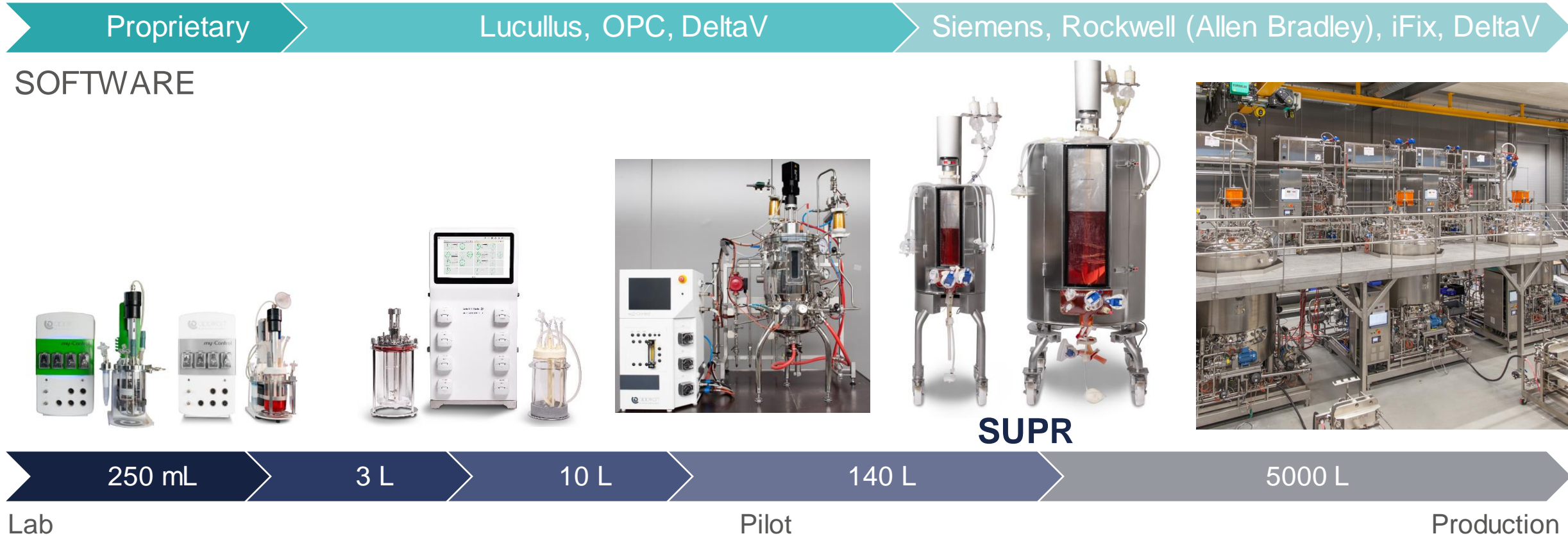
Faster start-up and
changeover times

Significant reduction
in labor
requirements

Minimal space and
facility requirements
– Flexible facility set-
up (Flex Factory)

Lower CAPEX

Getinge Applikon Bioreactor system landscape



SUPR

The true single-use bioreactor system



Ease of use

*Easy-to-use and highly configurable pilot and production scale single-use bioreactor system will enable users to bring pharmaceutical and biotech products **faster to market***



True bioreactor specialist

*Leveraging **five decades** of experience, to create a true single-use bioreactor scale-up, on a platform designed for bioreactors*



Entry level solution

*Offer an optimized system configuration and **cost-effective** investment that match your customers dedicated needs*



Quality you can trust

*Ensuring the customer's ease of mind, by creating single-use products to prevent cross contamination with the **Getinge quality culture***





Ease of use

Easy-to-use and highly configurable pilot and production scale single-use bioreactor

Click-n-Go bag loading

Click-n-Go bag loading

Ease of use

Features

- All-in-one single-use cultivation container
- Click in motor gripper assembly
- Lock system
- Height adjustable stirrer

Benefits over the competition

- Requires only one operator (Sartorius)
- No insertion of further material that can impact the integrity of the bag (Thermo Fischer Hyperforma)

30 November, 2023

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Jorg Bolder



Leslie M...



Tony Ha...



Nicolas ...



John Bo...



Michel D...



Venkates...



Brandy P...



Neil Nes...



Carine T...



+17

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Jorg Bolder

26 December, 2023

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All-in-one single-use cultivation container

Ease of use

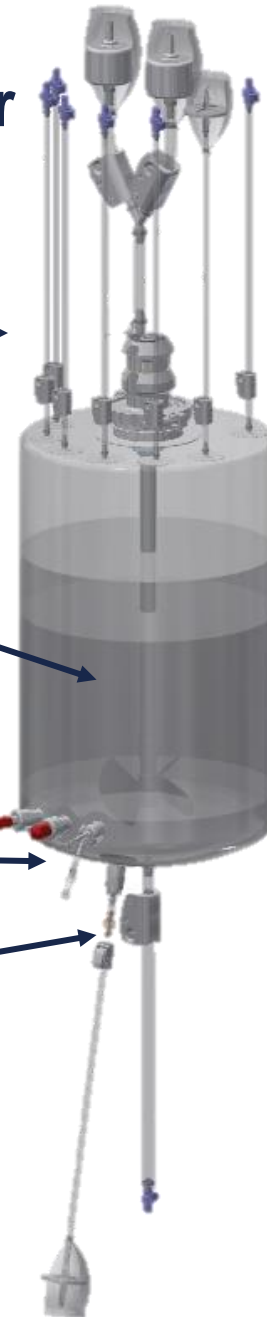
Weldable tubing

Top driven & centered impeller

Single-use sensors

Temperature pocket + sample port

Sparger



User benefit

- Ready to go with single-use sensors and built-in impeller
- Reduce start-up time
- Easy scale-up with centered stirrer

5:1
Turndown
ratio



True bioreactor specialist

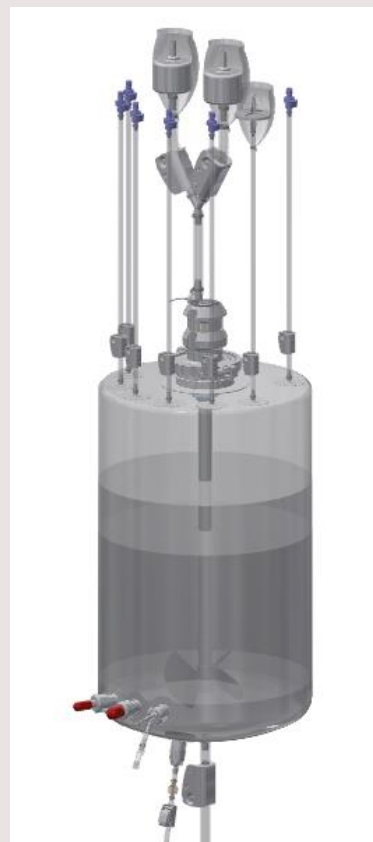
A true single-use bioreactor scale-up

Traditional bioreactor design

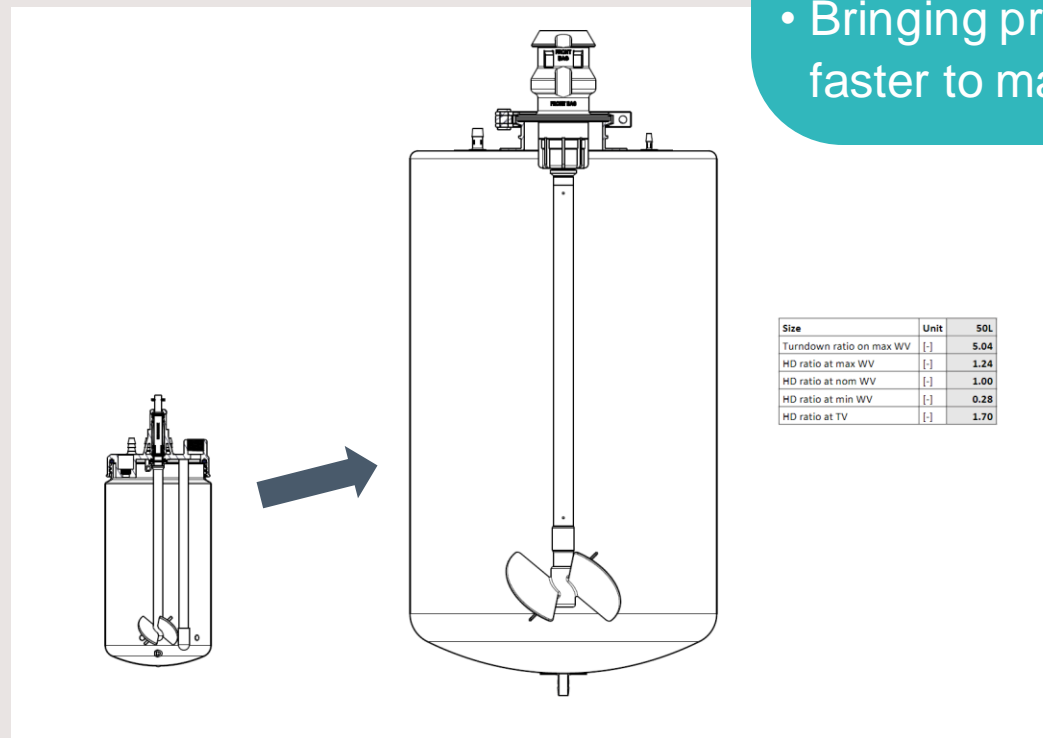
True bioreactor specialists



Dished bottom



Centered & top driven impeller



Size	Unit	50L
Turndown ratio on max WV	[-]	5.04
HD ratio at max WV	[-]	1.24
HD ratio at nom WV	[-]	1.00
HD ratio at min WV	[-]	0.28
HD ratio at TV	[-]	1.70

Traditional bioreactor dimensions

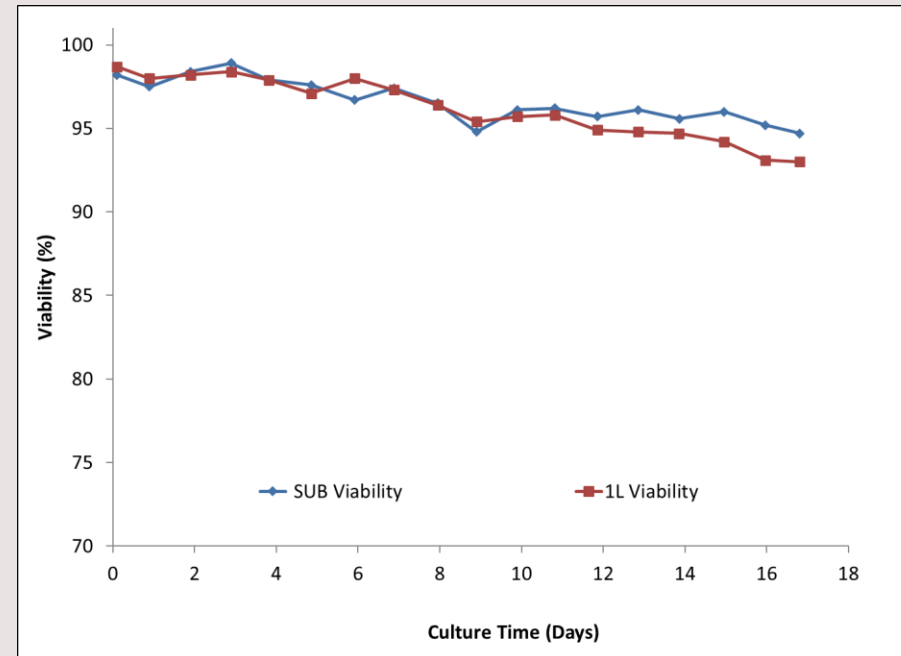
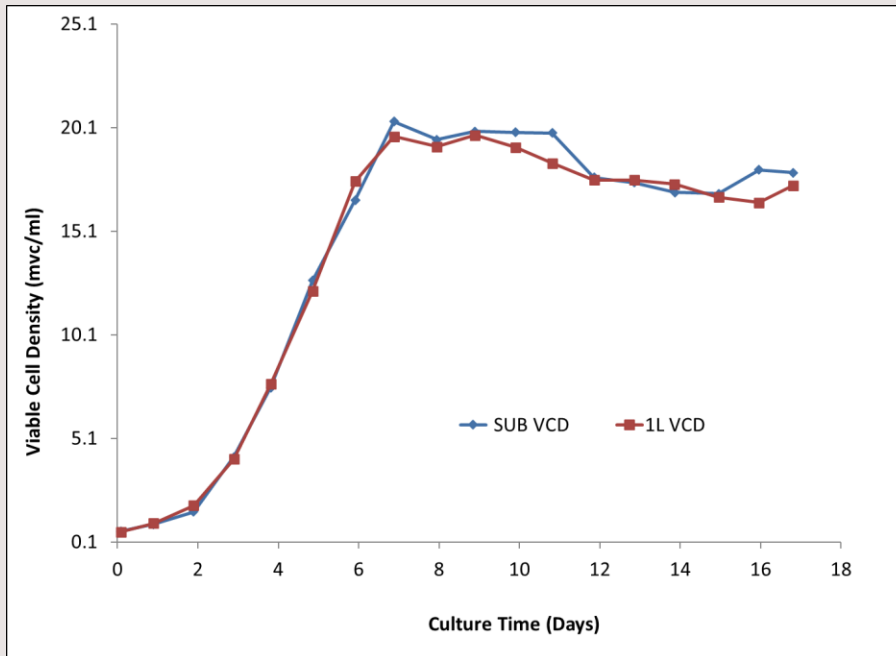
User benefit

- Easier scale up transfer of process from research to pilot/production
- Bringing products faster to market



Customer Trial results

True bioreactor specialists



- Trial at CDMO company operating in the US and India
- Run a comparison between a 2 L glass bioreactor (1 L WV) and a 50 L SUPR (30 L WV)
- Results are comparable and within acceptance criteria

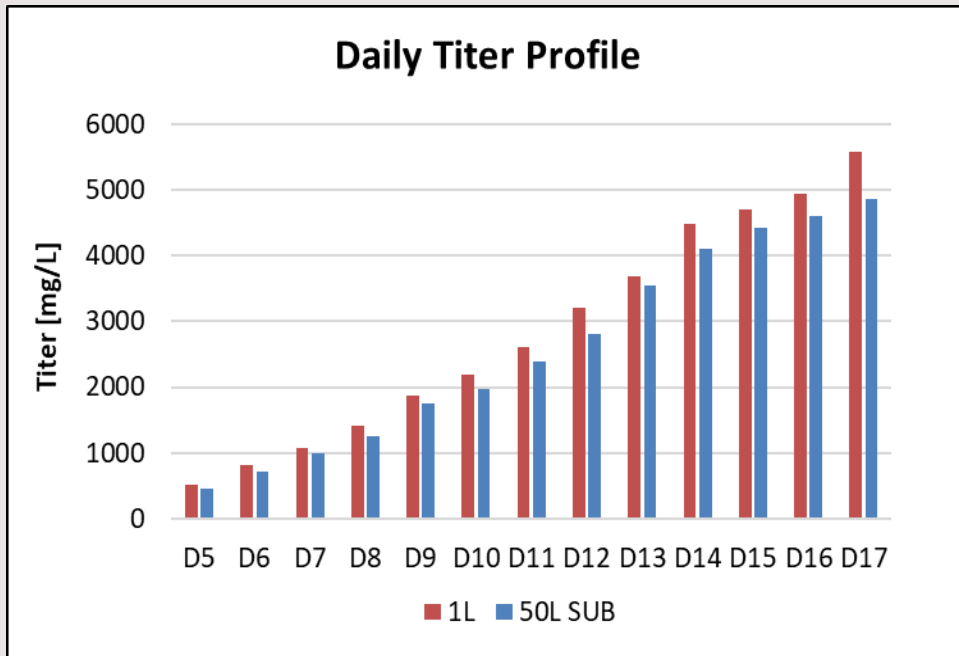
- 2 L Glass bioreactor was run in parallel with 50 L SUB. Samples were taken daily to measure VCD, cell viability
- PVCD of 2 L glass BR : 19.66×10^6 on Day 7 with 97.3% viability
- PVCD of 50 L SUB : 20.4×10^6 on Day 7 with 97.4% viability





Customer Trial results

True bioreactor specialists



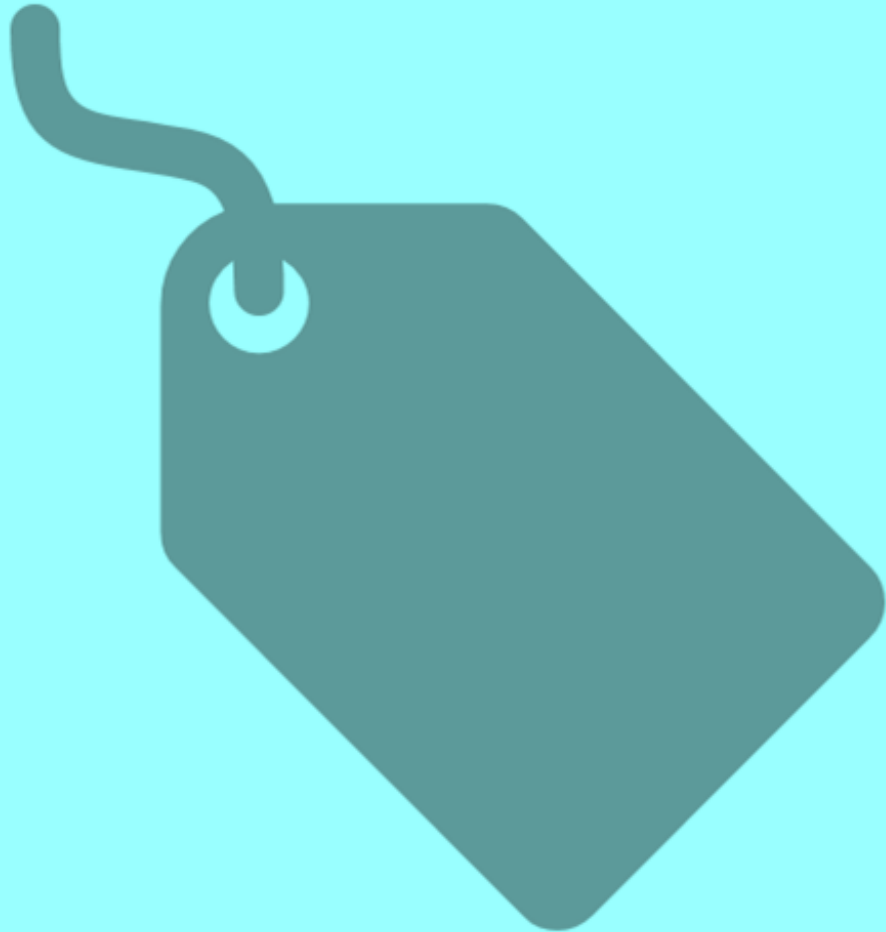
	1L	50L SUB
D5	511	466
D6	810	715
D7	1080	986
D8	1420	1253
D9	1871	1753
D10	2191	1967
D11	2599	2387
D12	3208	2817
D13	3691	3539
D14	4482	4102
D15	4698	4425
D16	4942	4599
D17	5585	4855

Day mAB production in mg/L

- Trial at CDMO company operating in the US and India
- Run a comparison between a 2 L glass bioreactor (1 L WV) and a 50 L SUPR (30 L WV)
- Results are comparable and within acceptance criteria

Comparable titer between the SUB and 1 L-glass BR. Titer of 50 L SUB on day 17 reached 4.85 g/L compared to 5.58 g/L of 1 L-glass BR.





Entry level solution

Optimized configuration and cost-effective system

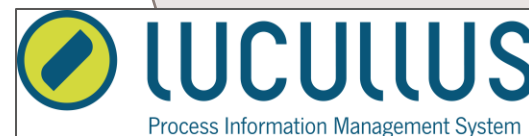
SUPR Livit Flex Bundle

Entry level solution

- R&D and Pilot solution
- 4 parts
 - SUPR Consumable + Hardware
 - Livit Flex Controller
 - Software
 - Services (optional)
 - Installation
 - Training

User benefit

- Cost-effective solution
- User-friendly Livit software



SUPR Pro-Control Bundle

GMP solution

- Turn-key GMP production solution
- 4 parts
 - SUPR Consumable + Hardware
 - Pro-Control
 - Software
 - Services
 - Installation
 - FAT & SAT
 - Training
 - GMP documentation

User benefit

- Regulatory Compliance
- Automated solution
- Custom project to meet customer demands





Quality you can trust

Getinge Quality culture

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Getinge quality culture

Quality you can trust



Designed in Holland



Produced in Holland and the USA



Experienced bioreactor provider



Custom projects to meet customer demands



GMP documentation



True scale up specialists – From lab to production

True bioreactor specialists

Max Working Volume

500 mL

3 L

15 L

50 L

250 L

Total Volume



AppliFlex ST (GMP)

SUPR

1000 L SUPR

Coming in 2025



Interested?

Let's discuss your wishes and requirements!

Open for discussions now

Supplying quotations and accepting orders from March 2024

Delivery starting for R&D systems from start of Q3 2024, for GMP systems end of Q3 2024



Thank you for your attention!

Name

Phone

E-mail

www.getinge.com

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