



Green
Elephant
BIOTECH

CellScrew®

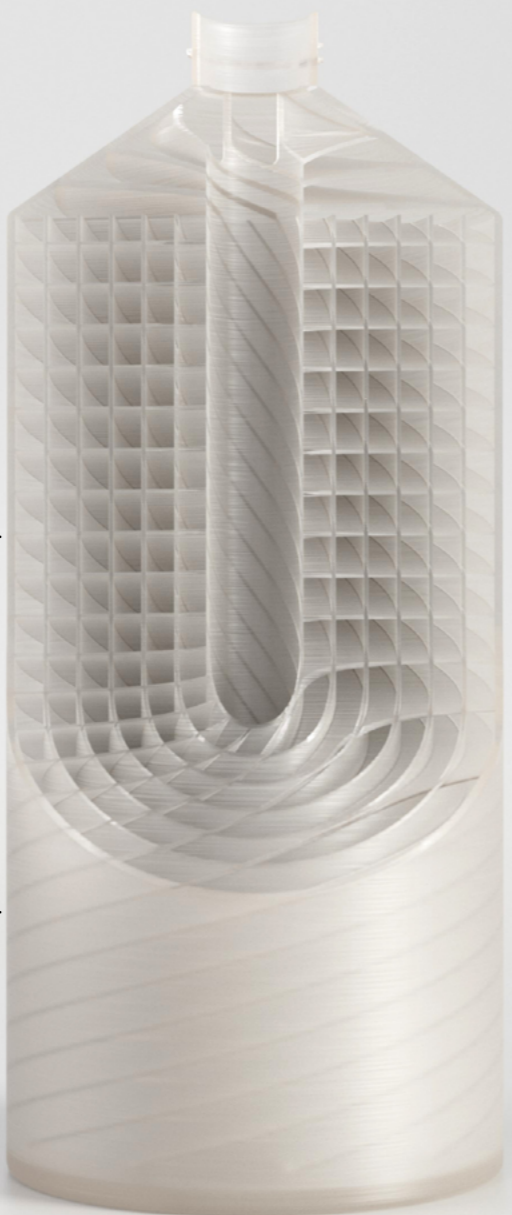
Scaling your
adherent cell
yields in **minimal
space**



Designed for the future of adherent cell cultivation

Large cell culture area formed by concentric cylinders

Excellent mixing and gas exchange facilitated by Archimedes' screws



Available as **closed system**

Size range offers **extensive scalability options**

Easy handling through compact size




Space efficient design through high surface-to-volume ratio

Made from **sustainable, plant-based polylactic acid (PLA)**

Your team for scaling



The **CellScrew**® is available in three complementary sizes suitable from process development scale to production. Up- and downscale your cell cultivation process according to your needs – without the burden of complex and costly process adjustments.

	CellScrew® mini	CellScrew® 6K	CellScrew® 10K
			
Growth area	850 cm ²	6,000 cm ²	10,000 cm ²
Medium area	50 - 120 mL	250 - 800 mL	450 - 1,300 mL
Recommended media volume	85 mL	600 mL	1,000 mL
Height	16.78 cm	19.19 cm	28.39 cm
Diameter	5.3 cm	12.1 cm	12.1 cm
Weight	120 g	550 g	860 g
Recommended speed		0.2 - 2 rpm	
Mixing times (@0.5 rpm)	< 8 min	< 9 min	< 27 min
kLa (@0.5 rpm)	N/A	1.95 h ⁻¹	1.95 h ⁻¹

Every CellScrew® comes with a vented cap, sterilized and TC-treated.

Your advantages with the CellScrew®

Grow big but stay lean

There's no need to deal with bulky stack systems: The **CellScrew**® enables extensive cultivation of adherent cells on a small footprint.

12x

lower contamination risk compared to roller bottles

The **CellScrew**® 10K unites your adherent cell cultivation in just one bottle, reducing contamination and batch variances, and preventing you from costly setbacks.

133

times less vessels to handle compared to T75-flasks

The large growth area of one **CellScrew**® 10K simplifies adherent cell culture by reducing lab and paper work.

Say yes to scaling without complicated process development

Cultivating adherent cells in the **CellScrew**® allows for linear scalability without changing the cell's environment, ultimately streamlining your cultivation process.

How it works

STEP 1



Inoculate the **CellScrew**® with cells and media.

STEP 2



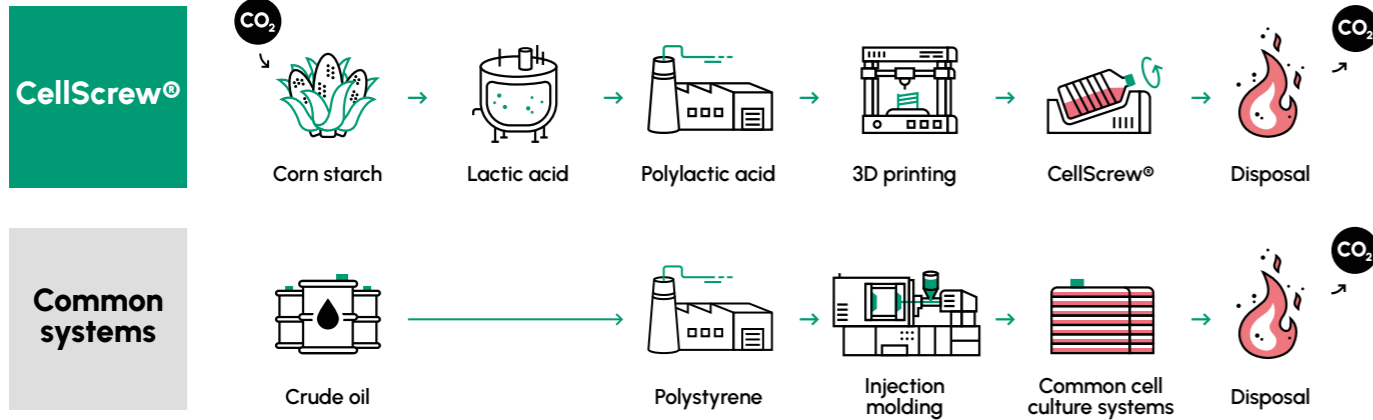
Incubate: Placed on a roller device in a 10-15° angle, the Archimedes' screws inside the **CellScrew**® distribute cells, medium and gas evenly through the bottle.

STEP 3



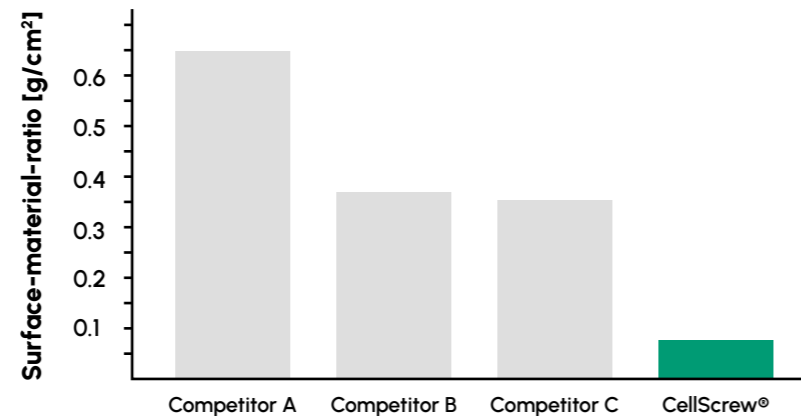
Harvest the cells from the **CellScrew**® after trypsinization.

The world's most sustainable cell culture system made from plant-based PLA



90% less carbon emissions!

Additive manufacturing allows for the creation of a **large growth surface** with **reduced material usage**. Combined with the use of plant-based PLA, the CellScrew® has a 90% lower carbon footprint than other cell culture systems.



Discover our bundles



CellScrew® 6K starter bundle

- 3 CellScrew® 6K with a bundle discount
- detailed onboarding with our application specialists
- expert support from R&D



CellScrew® mini bundle

- 3 CellScrew® mini
- CellScrew® mini TriDock to cultivate 3 CellScrew® mini simultaneously included in first order

Contact our Sales team →



→ sales@greenebt.com



Green Elephant Biotech GmbH
Kerkrader Straße 9
35394 Gießen – Germany

www.greenelephantbiotech.com
info@greenebt.com



ISO 9001

Certified
Quality Management System

www.tuvsud.com/ms-cert

FIND US ONLINE

