CellScrew®





culture area formed by concentric cylinders

Easy handling through compact design Excellent mixing and gas exchange through an Archimedean screw

Extensive scalability options

Great automation potential



More sustainable than conventional multilayer flasks

Large growth area, low-shear mixing



The CellScrew® is a cell culture system designed for mass expansion of adherent cells. By rotation of the CellScrew®, media and gas are transferred through an Archimedean screw, providing an excellent environment for the cells.

Concentric cylinders form the large growth area. Due to TC-treatment, the surface is ideal for cell attachment and growth. The compact design allows easy handling and saves incubator space.

Dimensions

CS10K

Cell culture area: 10.000 cm² 450 - 1,300 mL Media volume:

CS6K

Cell culture area: 6.000 cm² Media volume: 250 - 800 mL

How it works

LEARN MORE

STEP 1 Inoculation







Remove the cap of the CellScrew®.

Inoculate with cells and media.

Reattach the cap.

STEP 2 Incubation



Place the CellScrew® in an incubator into a roller device at an angle of 10° - 15°.



Rotation drives the Archimedean screw and distributes cells and media evenly throughout all planes. Constant circulation ensures propper oxigenation and nutrient supply for all cells.

STEP 3 Harvest











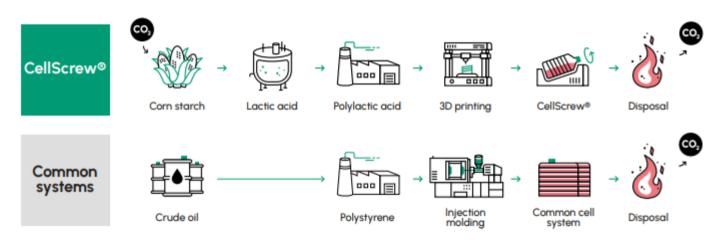
Rotate to distribute PBS and Trypsin.

Harvest the detached cells.

Place flask upright and aspirate the media.

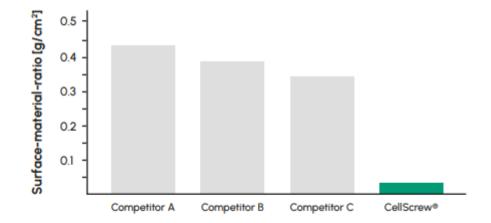
Rinse with PBS and add Trypsin.

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



90% less plastic waste!

The additive manufacturing process allows us to make more growth area from less raw material.



Your advantages with the CellScrew®





Reduced manufacturing costs

The large growth area, intensified processes and ease of handling reduce labour costs and required manufacturing space.





Reduced time to market

As the CellScrew® can be applied from lab scale to manufacturing scale, **no additional process development** is necessary to scale-up.





Reduced environmental impact

Your CO₂ emission is reduced by more than 90% using the CellScrew®, compared to conventional multilayer flasks.

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