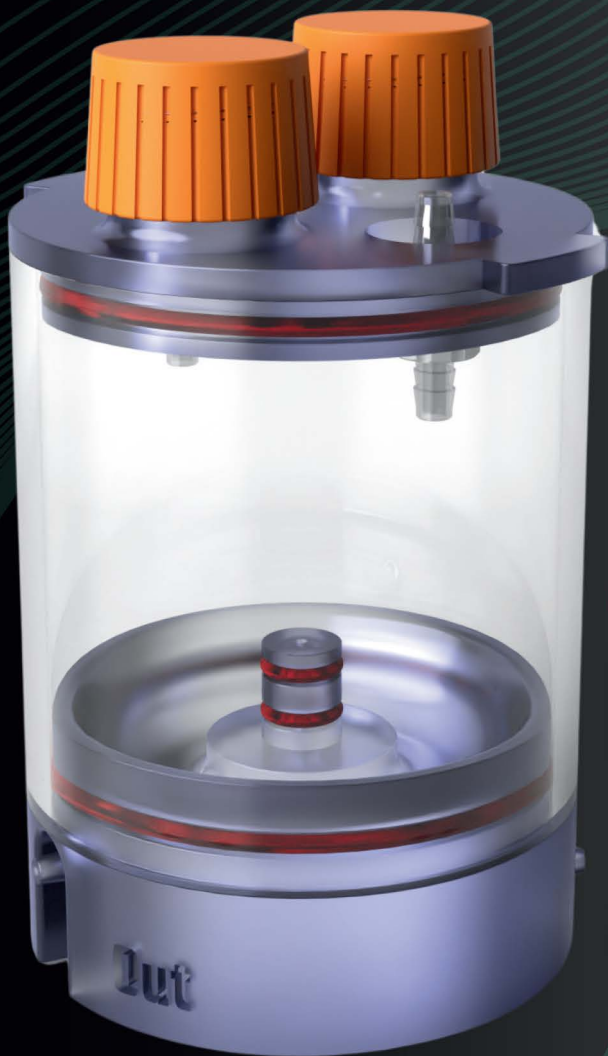


BioAxFlow – Advancing Cell Culture, Shaping the Future.

Revolutionizing Cell Culture

BioAxFlow is designed to elevate bioprocessing by eliminating traditional impellers and rotating parts. Using advanced fluid dynamics technology, it ensures a gentle and efficient culture environment—achieving up to **200% operational improvement** over conventional devices.



BioAxFlow

Easy
Clear
Flexible

Key Features:

- **Plug & Play Solution** – Ready to use with minimal setup
- **Adaptability** – Supports scaffolds of various shapes and sizes
- **Homogeneous Cell Distribution** – Ensures even cell seeding and growth
- **Fully Automated Seeding** – Operator-independent, reducing variability
- **Modular Design** – Enables multiple experiments in parallel
- **Optical Transparency** – Allows for real-time monitoring
- **Rotation-Free Design** – No impellers or moving parts, ensuring gentle mixing

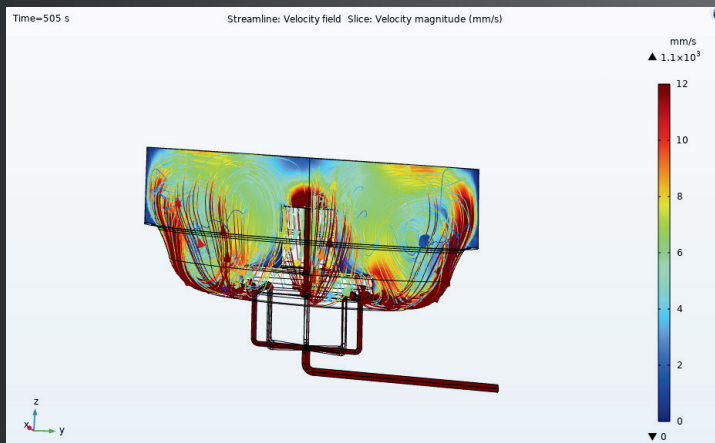
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Scientific Advantages

Studies highlight BioAxFlow's ability to **significantly enhance cellular adhesion, proliferation, and scaffold colonization** compared to traditional static culture methods. The dynamic flow within the chamber ensures a **continuous movement of the medium**, optimizing cellular exposure to nutrients and growth factors.

This leads to **efficient nutrient exchange and cellular interaction**, closely mimicking in vivo conditions.



Impact on the Future

BioAxFlow addresses major global challenges, including:

- ✓ Development of new, better-targeted medicines
- ✓ Solutions for the organ shortage crisis
- ✓ Advancements in sustainable food production
- ✓ Innovative life-enhancing bioprocesses to support an aging population

Two Versions Available:

- ◆ Disposable
- ◆ Disposable+ – Indefinitely sterilizable with ethanol, reusable up to 10 autoclaving cycles

Size Options:

- 🔧 BioAxFlow4 – 10ml to 25ml volume range
- 🔧 BioAxFlow8 – 110ml to 180ml volume range
- 🔧 Custom sizes available upon request!

About Cellex

Cellex is an innovative SME where engineers and biologists collaborate to develop cutting-edge bioprocessing solutions.

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