

Go Big



Cell culture plastics

Introducing the Nalgene 5 L shake flask Excellent for performing large-scale suspension cell culture

Thermo Scientific™ Nalgene™ 5 L shake flasks, available in both faceted and angled styles, are specifically developed for the needs of scientists involved in suspension cell culture and protein expression research.

These flasks are equipped with advanced features and an optimized design. This can maximize productivity and lab space while simultaneously minimizing and the use of plastics.

The **angled-bottom 5 L flask** is specifically designed to accommodate Gibco™ ExpiCHO™ expression systems, and is the largest flask on the market that is compatible with the transient transfection of the ExpiCHO system.

The **faceted-bottom** shake flask can be used for general suspension culture scale-up as the Expi293 and ExpiSf protein expression kits.

Nalgene 5 L shake flasks

Product name	Size	Cat. No.
Nalgene 5-Liter Shake Flask with Angled Bottom	4/case	4115-5000
Nalgene 5-Liter Shake Flask with Faceted Bottom	4/case	4115-5001

Benefits of the angled Nalgene 5 L shake flask include:

- **Large format** — specifically designed for ExpiCHO cells - Maintain high-titer expression as you scale up
- **Improved lab sustainability**—use less plastics as you scale up
- **Smaller footprint**—unique 5 L size takes up less space in your lab than the same volume in multiple shake flasks
- **Innovative handle**—eases transport within the lab
- **Easy to use**—simply peel open the outer packaging to start using

Protein expression research products

See how our products are used together to maximize scale-up for protein expression:

Scale up for the
ExpiCHO system



Scale up for the Gibco™
Expi293™ system



Scale up for the Gibco™
ExpiSf™ system



Thermo Scientific™ suspension culture and protein expression cultureware

Product	Size	Cat. No.
Nalgene shake flasks, with vented caps	125, 250, 500, 1,000, 2,000, and 2,800 mL	Various
Nalgene shake flasks, with solid caps	125, 250, 500, 1,000, 2,000, and 2,800 mL	Various
Nunc 50 mL Bioreactor Tube	50 mL	332260
Nunc serological pipettes	1, 5, 10, 25, and 50 mL	Various

Gibco™ protein expression kits

Product	Size	Cat. No.
ExpiCHO-S Cells	1 mL	A29127
ExpiCHO Expression Medium	6 x 1 L	A2910002
ExpiFectamine CHO Transfection Kit	For 10 L of culture	A29130
Expi293F Cells	1 mL	A14527
Expi293 Expression Medium	6 x 1 L	A1435102
ExpiFectamine 293 Transfection Kit	For 10 L of culture	A14525
ExpiSf9 Cells	1 vial	A35243
ExpiSf CD Medium	6 x 1 L	A3767803
ExpiSf Protein Production Kit	For 10 L of culture	A3767807

Thermo Scientific™ orbital shakers

Product	Size	Cat. No.
CO ₂ Resistant Shakers	1 unit	88881101
Solaris Open Air Orbital Shaker	1 unit	SK4000

Explore our entire protein biology and expression portfolio at
thermofisher.com/proteinexpression

 Scale up today at thermofisher.com/bigflask

Intended use of the products mentioned varies. For specific intended use statements, please see product literature.

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