

Smart Notes

Highlighting innovative
features and techniques
for Thermo Scientific
Nunc TripleFlask

TripleFlask

Q A

How do I evenly distribute my cell suspension among the multiple growth surfaces in a triple-layer flask?

Technique is the key. Always start with pouring a homogenous cell suspension carefully into a triple-layer flask. After letting the volume equilibrate among the three layers in the upright position, hold the flask on its side, at an approximately 75° angle to the workbench, before gently and quickly laying it down on its growth surface. The back-tilting at this specific angle enables equal distribution of the cell suspension among the three layers.

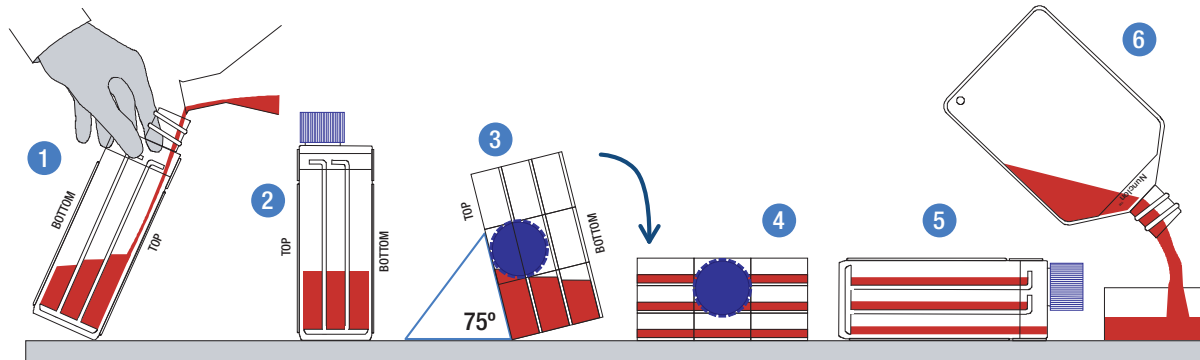
The Thermo Scientific™ Nunc™ TripleFlask™ provides a total of 500 cm² surface area for cell attachment. It is a great tool for saving incubation space, improving lab productivity and supporting automated cell culture. Evenly seeding the cells among the three layers in a TripleFlask ensures uniform growth within the flask, allowing for better consistency between passages of cells. Closely following the step-by-step culturing and harvesting technique for the TripleFlask is the key to successfully using this device.

The unique positioning of these flasks is intended to highlight the smaller, space-saving footprint of the 500 cm² TripleFlask in comparison to a 175 cm² single layer flask.



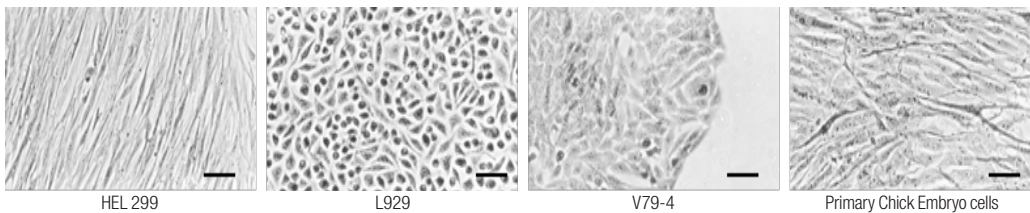
Thermo
SCIENTIFIC

The Thermo Scientific Nunc TripleFlask Culturing Technique



1. Prepare homogeneous cell suspension. Pour the cell suspension into the TripleFlask against the top surface, tilting flask slightly to avoid foam or bubbles. Recommended working volume is 100-200 mL.
2. Leave the flask in the upright position for a short time to allow equilibration of liquid in each compartment.
3. To ensure equal distribution of cell suspension between layers, it is recommended to hold the Triple Flask on its side for a short time, at an approximately 75° angle to the work surface.
4. Quickly, but gently turn the flask from its side to the incubation position.
5. During incubation, an equal distribution of culture media is maintained on each layer.
6. To harvest cells, use a standard trypsinization procedure as in a single-layer flask. Pour 10-15 mL Trypsin into the Triple Flask and distribute as above. Once trypsinization is complete, pour the resulting suspension into a new container to recover cells.

The TripleFlask is treated with the Thermo Scientific Nunclon™ Delta surface technology, offering maximum adhesion for a broad range of cell types verified by cell culture testing on every lot of the TripleFlask.



Cell adhesion tests are performed on Nunclon Delta surface using Life Technologies™ medium, serum and reagents. Scale bar: 100 µm.

Summary

The Thermo Scientific Nunc TripleFlask offers an ideal solution for both scale up and cell culture automation.

► Find the right TripleFlask for your lab, visit thermoscientific.com/tripleflask

© 2014 Thermo Fisher Scientific Inc. All rights reserved. All (other) trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries.

ANZ: Australia: 1300 735 292, New Zealand: 0800 933 966; **Asia:** China Toll-free: 800-810-5118 or 400-650-5118; India: +91 22 6716 2200, India Toll-free: 1 800 22 8374; Japan: +81-3-5826-1616; Other Asian countries: 65 68729717
Europe: Austria: +43 1 801 40 0; Belgium: +32 2 482 30 30; Denmark: +45 4631 2000; France: +33 2 2803 2180; Germany: +49 6184 90 6000, Germany Toll-free: 0800 1-536 376; Italy: +39 02 95059 554; Netherlands: +31 76 571 4440; Nordic/Baltic countries: +358 9 329 10200; Russia/CIS: +7 (812) 703 42 15; Spain/Portugal: +34 93 223 09 18; Switzerland: +41 44 454 12 22; UK/Ireland: +44 870 609 9203
North America: USA/Canada +1 585 586 8800; USA Toll-free: 800 625 4327
South America: USA sales support: +1 585 586 8800 **Countries not listed:** +49 6184 90 6000 or +33 2 2803 2000

Thermo
SCIENTIFIC

A Thermo Fisher Scientific Brand