Smart Notes

Protect valuable materials during fluid transfer applications

How can I prevent potential material contamination during fluid transfer operations?

Ported closures are an excellent option for fluid transfer into and out of containers for media, APIs and other critical vaccines and biologics applications.

Often closures are lined with "friction fit" liners which are not attached to the inside of the closure. This means that when assembling or disassembling your fluid transfer systems, there is the potential for the liner to fall out into your high value contents, introducing the chance of contamination and the potential need to dispose of the contained liquid. Liners that are sonically-welded or otherwise attached in a chemicalfree method solve this problem and protect the integrity of the stored materials.





Ported closures minimize risk of contamination. Protect your valuable contents during fluid transfer.

Testing was performed to compare the Thermo Scientific[™] Nalgene[™] Biotainer[™] ported closures with a competitive ported closure for the ability to retain the liner in the cap. Retention of the liner ensures that it does not fall out during application or removal of the ported closure, protecting the often highly-valuable materials contained in the bottle.

Test Procedure

Ported closure liners were tested using a suction-cup fitting attached to a variable-pressure vacuum line which was applied to the liner. Liners that were not welded or attached firmly to the closure were easily removed, while sonically-welded closures could not be removed, even pulling the highest vacuum possible with the fixture – the vacuum seal was broken before the liner could be pried free.

Description	Liner Adhesion Method	Number of Closures Tested Harvesting	Vacuum Setting at Removal
Biotainer 2-Ported Closure	Sonically-Welded	4	>27 inHg
Biotainer 3-Ported Closure	Sonically-Welded	4	>27 inHg
Competitor C 2-Ported Closure	Friction Fit	4	5 inHg

Summary

Nalgene Biotainer ported closures are a reliable, safe way to transfer fluids into and out of Biotainer bottles without risking product contamination.

Visit thermoscientific.com/portedclosures for product details.

thermoscientific.com

© 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 9505 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/Canada +1 585 586 8800 Countries not listed: +49 6184 90 6000 or +33 2 2803 2000

