

Thermo Scientific HyClone Antifoam

An easy-to-use antifoaming agent

Thermo Scientific HyClone Antifoam 10% Irradiated Solution

HyClone Antifoam solutions are developed to deliver 3% active Simethicone in sterile, Thermo Scientific HyClone BioProcess Container (BPC®) Systems using a validated gamma irradiation process. The Antifoam Irradiated BPCs are designed with tubing lines and fittings to enable easy connection and delivery to any cell culture system.

Antifoam Irradiated has been shown to effectively prevent foam from occurring in cell culture systems, as well as quickly eliminate foam already formed. Two types of Antifoam Solutions are available (See ordering information), with the HyClone ADCF Antifoam Irradiated containing no components of animal origin.

Ready to use
Validated sterility assurance
Convenient packaging
Flexible applications

Application Information

Due to the normal characteristics of Simethicone emulsions, some product separation may occur during shipping and storage. Shake Antifoam Irradiated well before use.

HyClone Antifoam Irradiated and ADCF Antifoam Irradiated have been demonstrated to directly replace autoclaved Simethicone solutions. As individual systems may vary, optimal concentrations and conditions may need to be determined prior to use. Aseptic techniques and processing is required to deliver the antifoam solution to cell culture systems and media as it is not filterable.



Sterilization Information

HyClone Antifoam Irradiated and ADCF Antifoam Irradiated deliver a 3% active Simethicone concentration. The 30% Simethicone emulsion is diluted in Water for Injection (WFI) quality water. Gamma irradiation sterilization of these products has been validated to a sterility assurance level (SAL) of 10^{-6} .

The gamma radiation process is based on the Association for the Advancement of Medical Instrumentation (AAMI) technical information report number 33:2005 standard (title: Sterilization of Health Care Products - Radiation - Substantiation of a Selected Sterilization Dose - Method V_{Dmax}).

A sub-lethal sterilization dose was determined according to AAMI/ANSI/ISO11137-2006 part 2 - method V_{Dmax}²⁵. This process validates a radiation dose based on the determination of the product bioburden and comparison of that bioburden to a model population having a defined resistance to radiation.

Diagram 1

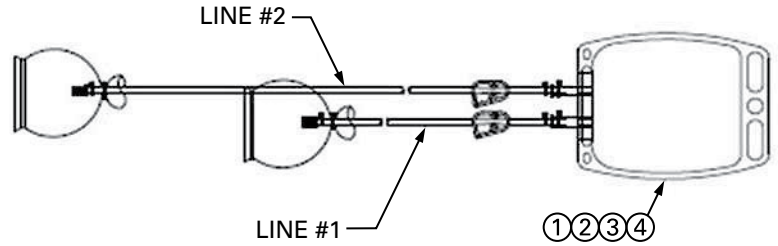


Diagram 1: 500 mL Antifoam in 1 L BPC				
	Size	Material	Tubing Size	Fittings
Line 1	16" (41 cm)	Medial-Grade PVC	1/8" ID x 1/16" Wall	Female Luer Lock
Line 2	36" (91 cm)	C-Flex	1/8" ID x 1/16" Wall	Female Luer Lock

Diagram 2

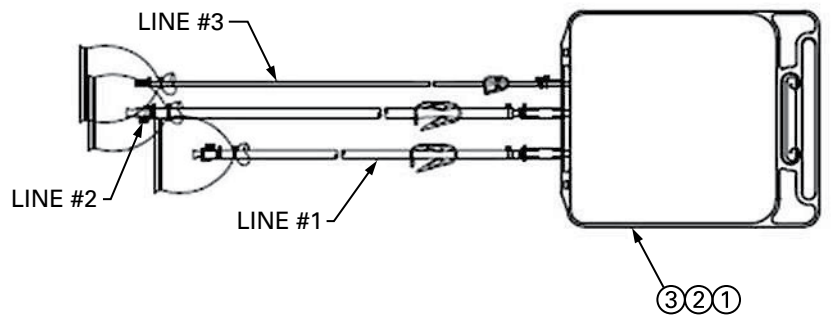


Diagram 2: 2.5 L Antifoam in 5 L BPC				
	Size	Material	Tubing Size	Fittings
Line 1	10.5" (27 cm)	Medial-Grade PVC	3/8" ID x 1/16" Wall	Quick Connect Body
Line 2	36" (91 cm)	C-Flex	3/8" ID x 1/8" Wall	Quick Connect Body
Line 3	36" (91 cm)	C-Flex	1/8 ID x 1/16" Wall	Female Luer Lock

Ordering Information

Name	Part Number/Unit Size	Raw Material	ADCF	Active Simethicone Concentration
Antifoam Irradiated	SH30896.01 (500 mL)	Dow Corning® 7-9245, 30% Simethicone Emulsion USP	No	Manufactured to 3%
	SH30896.02 (2.5 L)			
Name	Part Number/Unit Size	Raw Material	ADCF	Active Simethicone Concentration
ADCF Antifoam Irradiated	SH30897.01 (500 mL)	Dow Corning Q7-2587, 30% Simethicone Emulsion USP	Yes	Manufactured to 3%
	SH30897.02 (2.5 L)			

*ADCF: Animal Derived Component Free

©2009 Thermo Fisher Scientific Inc. All rights reserved. Dow Corning is a trademark of Dow Corning Corporation. All other trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.