



EX-CELL® Antifoam

An effective antifoam agent

Product Description

EX-CELL® Antifoam is a gamma-irradiated simethicone based solution available in single-use bags. It is formulated from a non-ionic, 30% simethicone emulsion designed for:

- The pharmaceutical and veterinary biological industries.
- Direct supplementation into your culture systems in bioreactors to prevent foaming (foam suppressant) or eliminate foaming (foam dispersant) caused by mixing and shear forces within the cell culture systems, especially industrial bioreactors.
- The product can be aseptically connected to your cell culture system as it is conveniently packaged in ready-to-use single-use bags.

Application

Our EX-CELL® Antifoam is an effective antifoam product designed to control foaming typically associated with the use of cell culture media in bioreactors. This product exists as an emulsion, and therefore requires moderate agitation or orbital/reciprocal mixing prior to use. Such mixing manifests a more homogeneous suspension that ensures consistent defoaming activity during use. This product has been shown to be safe for use with both eucaryotic and procaryotic cell culture systems; however, volumes added and dosing regimens should be optimized by each customer to fit their specific cell lines and bioreactor systems.

Through meticulous formulation optimization, quantitative assay techniques, and an understanding of simethicone's binding properties, we provide the precise simethicone concentration of this gamma irradiated product for each lot produced, which is reported on its Certificate of Analysis (CoA). As a result, our EX-CELL® Antifoam represents an optimized formulation, providing consistent simethicone concentration leading to superior product performance.

Manufacturing Information

This product is manufactured using synthetically derived Animal Component Free (ACF) material and mixed with Water For Injection (WFI) to achieve an optimized formulated concentration resulting in a consistent and known concentration of simethicone. Material is filled into single-use bags before sterilizing the product via gamma irradiation. Dedicated or disposable equipment throughout the production process for EX-CELL® Antifoam are used.

Storage

Store between 15 to 30 °C.

Shelf Life

24 months shelf life. Do not use after expiry date.

Intended Use

For research or further manufacturing uses only. Not intended for direct use in humans or animals.

Quality Segment

MQ500

Ordering Information

EX-CELL® Antifoam is offered in two distinct primary contact packaging options. Each packaging option has unique material numbers based on the bag vendor utilized for the final packaging. Stability studies have been conducted on this material for both bag types.

Product	Material Number	Pack Size	Customer Outlet Tubing (material)	Bag Film
EX-CELL® Antifoam	59920C-1B	1L	C-Flex TPE	Polyethylene (PE)
	55920C-5B	5L	C-Flex TPE	
	59920C-1BC	1L	M-Flex TPE	
	59920C-5BC	5L	M-Flex TPE	
	59920C-10BC	10L	M-Flex TPE	

Custom Product

Please contact your local representative for more information on how to set up and order a customized version.

Contact Information

To place an order or receive technical assistance

Order/Customer Service: SigmaAldrich.com/order

Technical Service: SigmaAldrich.com/techservice

Safety-related Information: SigmaAldrich.com/safetycenter

SigmaAldrich.com

We have built a unique collection of life science brands with unrivalled experience in supporting your scientific advancements.

Millipore® **Sigma-Aldrich®** **Supelco®** **Milli-Q®** **SAFC®** **BioReliance®**

Merck KGaA
Frankfurter Strasse 250
64293 Darmstadt, Germany

