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Product Information

Antifoam Y-30 Emulsion Molecular Biology Reagent

Catalog Number **A6457**

Product Description

Antifoam Y-30 Emulsion is an aqueous emulsion containing 30% active silicon. It contains non-ionic emulsifiers different from those in Antifoam Emulsions B and C. It is designed to control foam in aqueous systems.

Appearance: White emulsion

pH: ~3

Density: 1.0 at 25 °C

The effectiveness of an antifoam is culture- and medium-dependent. An antifoam allowing good growth of one microorganism may inhibit growth of another species. Some microorganisms produce significant quantities of extracellular proteins or biosurfactants, which contribute to media foaming. These by-products are often produced during the latter stages of the fermentation. The composition of the growth medium can contribute to foaming, particularly if the medium is rich in proteinaceous components.

Any antifoam being used for the first time should be tested to ensure it will neither inhibit the growth of the microorganism nor act as a growth substrate.

Antifoams should be tested for adequate defoaming under representative culture conditions, including medium composition, temperature, pH, mixing, and aeration. If the antifoam is not effective under these conditions either a higher amount or a different antifoam should be selected and tested.

Storage

Store at room temperature.

Preparation Instructions

Antifoam Y-30 Emulsion can be prediluted with 3-10 parts of cool water to aid in dispersion. Prediluted suspensions should be used immediately.

Antifoam Y-30 Emulsion is typically effective at 1-100 ppm.

The flow properties of Antifoam Y-30 Emulsion are such that it can be pumped on an as-needed basis to a fermentor system with sufficient agitation to disperse the antifoam.

Product Profile

Function-tested for use in bacterial fermentation

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