Calcium Chloride, 1 M

(1 M Calcium Chloride Solution) Contains 147.01 g/L $CaCl_2 \cdot 2H_2O$ in Cell Culture Water

Cat. No. CCACL001 | Size: 100 ML

1. Product Description

Calcium chloride ($CaCl_2$) plays various roles in biochemical reactions occurring both inside and outside cells, such as cell signal transduction, muscle movement, and the stabilization of cell membranes and walls. It is also used in pre-treatment processes for introducing genetic material into eukaryotic cells as well as Escherichia coli.

2. Composition

Components	g/L
Calcium Chloride Dihydrate	147.01

3. Product Quality Specifications

Appearance	pH	Osmolality*	Sterility
Colorless clear liquid	pH 5.0 ± 1.0	150 ± 50 mOsm/kg H_2O	Sterile

*Measured after 1/10 dilution.

4. Storage Conditions and Precautions

Store at room temperature (15 ~ 30°C) protected from direct light. Product degradation may appear as precipitates, floating particles, or color change; discard if any are observed. The addition of extra substances may also cause degradation. Long-term storage at low temperatures may cause precipitation; warming the product to 37°C may dissolve the precipitates, but if they do not disappear, do not use the product.

5. Usage Instructions and Precautions

This product is a sterile solution. Open the cap only in a sterile environment (e.g., a clean bench) using aseptic technique. It is recommended to use the entire contents after opening; otherwise, aliquot into a suitable sterile container and store properly.