

## Calcium lactate

## Chemical Properties

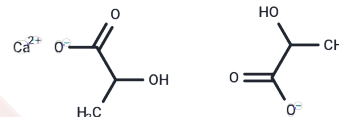
CAS No. : 814-80-2

Formula: C<sub>6</sub>H<sub>10</sub>CaO<sub>6</sub>

Molecular Weight: 218.22

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Calcium lactate (Conclyte calcium) is used by the beverage industry as a source of calcium to fortify fruit juice. Calcium lactate facilitates the growth and phytic acid degradation of soybean sprouts.
Targets(IC50)	Others,Antibacterial

## Solubility Information

Solubility	DMSO: 95 mg/mL (435.34 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (15.12 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5825 mL	22.9127 mL	45.8253 mL
5 mM	0.9165 mL	4.5825 mL	9.1651 mL
10 mM	0.4583 mL	2.2913 mL	4.5825 mL
50 mM	0.0917 mL	0.4583 mL	0.9165 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yeh JY, et al. Influence of calcium lactate on the fate of spoilage and pathogenic microorganisms in orange juice. J Food Prot. 2004;67(7):1429-1432.

Hui Q, et al. Mechanism of Calcium Lactate Facilitating Phytic Acid Degradation in Soybean during Germination. J Agric Food Chem. 2016;64(27):5564-5573.

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