

Yeast extract

Chemical Properties

CAS No. : 8013-01-2

Formula:

Molecular Weight:

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	Yeast extract is a concentrated soluble product derived from <i>Saccharomyces cerevisiae</i> . Its main nutritional components include partially hydrolyzed proteins (containing 35-40% free amino acids), B vitamins, and trace elements. It can be used as a nutrient source in bacterial culture media.
Targets(IC50)	Antibacterial
In vitro	Methods: 0.1-1.0% yeast extract was added to the culture medium, and <i>R. japonicum</i> , <i>R. lupini</i> , <i>R. meliloti</i> , <i>R. trifolii</i> , and cowpea rhizobium strains were cultured for 24-72 h. Results: Yeast extract promoted the rapid growth of the above strains and increased the proportion of viable cells [1].
In vivo	Methods: 0.05 mL of yeast extract at a concentration of 1.1 mg/mL was topically applied to wounds in diabetic mice for 5 consecutive days. Results: Yeast extract promoted wound healing in diabetic mice [2].

Solubility Information

Solubility	H2O: 8 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Tomé D. Yeast extracts: Nutritional and flavoring food ingredients. *ACS Food Science & Technology*, 2021, 1(4): 487-494.

Crowe MJ, et al. Topical application of yeast extract accelerates the wound healing of diabetic mice. *J Burn Care Rehabil.* 1999 Mar-Apr;20(2):155-62.

Skinner F A, et al. Effect of yeast extract concentration on viability and cell distortion in *Rhizobium* spp. *Journal of Applied Microbiology*, 1977, 43(2): 287-297.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481