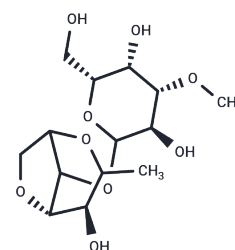


## Agar

### Chemical Properties

CAS No. :	9002-18-0
Formula:	C <sub>14</sub> H <sub>24</sub> O <sub>9</sub>
Molecular Weight:	336.34
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



### Biological Description

Description	Agar is a gelatinous substance mainly composed of agarose and agaropectin, which can be extracted from the cell walls of algae such as Gelidium and Gracilaria (Ogonori) in Rhodophyta. The gel formation and melting process of agar are based on hydrogen bonding and belong to physical gels, so the gelation process is reversible. With its unique physicochemical properties, agar is widely used in food additives, plant tissue culture, microbial medium preparation, fingerprint development, and medical-related fields.
Targets(IC50)	Others
In vitro	Preparation of Sulfamethizole-loaded Agar Microspheres [3] (1) Add 1.5 g of agar to 20 mL of water, heat and stir until fully dissolved, then cool the system to approximately 70 °C. (2) Add 2 g of sulfamethizole to the above agar solution and mix uniformly. Add the mixture dropwise into a 100 mL graduated cylinder containing Burgess's reagent using a 3 mL plastic syringe; the graduated cylinder is pre-placed in an ice-water bath. (3) Filter the resulting microspheres, followed by vacuum drying at room temperature (20 °C) for 24 h.

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9732 mL	14.8659 mL	29.7318 mL
5 mM	0.5946 mL	2.9732 mL	5.9464 mL
10 mM	0.2973 mL	1.4866 mL	2.9732 mL
50 mM	0.0595 mL	0.2973 mL	0.5946 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

Patel J, Soni D, Raol G, et al. Agar-Agar bioplastic synthesis and its characterization[J]. 2019.

Armisen R, Gaiatas F. Agar[M]//Handbook of hydrocolloids. Woodhead Publishing, 2009: 82-107.

Nakano M, et al. Sustained release of sulphamethizole from agar beads. J Pharm Pharmacol. 1979 Dec;31(12): 869-72.

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