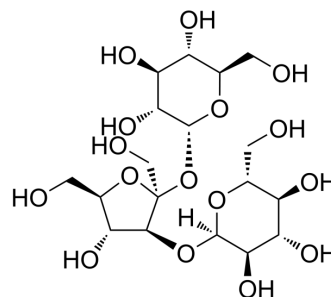


D-(+)-Melezitose

Cat. No.:	HY-N2340		
CAS No.:	597-12-6		
Molecular Formula:	C ₁₈ H ₃₂ O ₁₆		
Molecular Weight:	504.44		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (198.24 mM; Need ultrasonic)
 DMSO : 100 mg/mL (198.24 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9824 mL	9.9120 mL	19.8240 mL
	5 mM	0.3965 mL	1.9824 mL	3.9648 mL
	10 mM	0.1982 mL	0.9912 mL	1.9824 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 50 mg/mL (99.12 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.96 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.96 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.96 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

D-(+)-Melezitose can be used to identify clinical isolates of indole-positive and indole-negative *Klebsiella* spp.

In Vitro

A total of 102 (84%) of the 122 isolates are negative for indole production, unable to assimilate histamine and d-melezitose or to grow at 10°C. All of these 102 isolates are identified as possible *K. pneumoniae*/*K. variicola*. Finally, one isolate (1%) is

positive for indole production, histamine assimilation, and growth at 10°C and negative for ornithine and d-melezitose. This isolate is identified as possible *R. planticola*^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Alves MS, et al. Identification of clinical isolates of indole-positive and indole-negative *Klebsiella* spp. *J Clin Microbiol*. 2006 Oct;44(10):3640-6.

Caution: Product has not been fully validated for medical applications. For research use only.

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