



LKT Laboratories, Inc.

Aspartame

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Product Information

Product ID A7462

CAS No. 22839-47-0

Chemical Name N-L- α -Aspartyl-L-phenylalanine 1-methyl ester

Synonym APM, Equal, NutraSweet, Sanecta

Formula $C_{14}H_{18}N_2O_5$

Formula Wt. 294.30

Melting Point 246-247°C

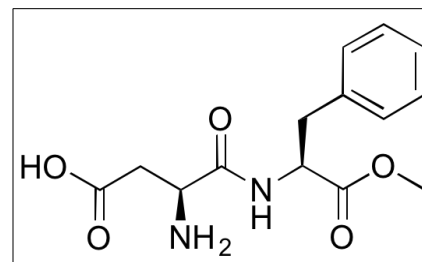
Purity $\geq 98\%$

Solubility Slightly soluble in water, ethanol. Soluble in formic acid, DMSO.

Store Temp Ambient

Ship Temp Ambient

Description Aspartame is a dipeptide ester that is used as an artificial sweetener in commercial food production. Aspartame exhibits antibacterial efficacy against *Porphyromonas*, a periodontal pathogen. In vivo, aspartame also displays antinociceptive activity, increasing latency times in tail flick and paw lick assays. TEST!!!!!!



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
A7462	100 mg	\$40.00
A7462	1 g	\$56.40
A7462	5 g	\$140.20
A7462	25 g	\$560.40

References Prashant GM, Patil RB, Nagaraj T, et al. The antimicrobial activity of the three commercially available intense sweeteners against common periodontal pathogens: an in vitro study. J Contemp Dent Pract. 2012 Nov 1;13(6):749-52. PMID: 23403996.

Rani S, Gupta MC. Evaluation and comparison of antinociceptive activity of aspartame with sucrose. Pharmacol Rep. 2012;64(2):293-8. PMID: 22661178.

Yagasaki M, Hashimoto S. Synthesis and application of dipeptides; current status and perspectives. Appl Microbiol Biotechnol. 2008 Nov;81(1):13-22. PMID: 18795289.

Butchko HH, Stargel WW, Comer CP, et al. Aspartame: review of safety. Regul Toxicol Pharmacol. 2002 Apr;35(2 Pt 2):S1-93. PMID: 12180494.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.