



LKT Laboratories, Inc.

Amoxicillin

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Product Information

Product ID A5057

CAS No. 26787-78-0

Chemical Name (2S,5R,6R)-6-[[[(2R)-amino(4-hydroxyphenyl)-acetyl]amino]-3,3-dimethyl-7-oxo-4-Thia-1-azabicyclo-[3.2.0]heptane-2-carboxylic acid

Synonym Amoxycillin, Amolin, Amopenixin, Helvamos, Moxal, Pasetocin, AMPC

Formula C₁₆H₁₉N₃O₅S

Formula Wt. 365.41

Melting Point 194°C

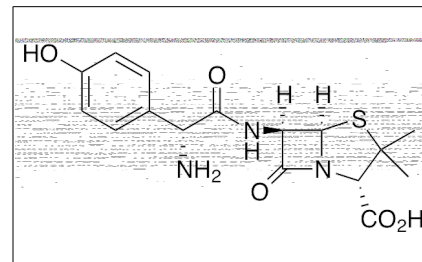
Purity ≥98%

Solubility Soluble in water, DMSO, ethanol.

Store Temp Ambient

Ship Temp Ambient

Description Amoxicillin is a β-lactam penicillin antibiotic that exhibits antibacterial efficacy against both gram positive and gram negative bacteria. Amoxicillin inhibits peptidoglycan polymerization through binding of penicillin binding proteins, inhibiting cell wall synthesis.



Bulk quantities available upon request

Product ID	Size
A5057	5 g
A5057	25 g
A5057	100 g

References Astasov-Frauenhoffer M, Braissant O, Hauser-Gerspach I, et al. Microcalorimetric determination of the effects of amoxicillin, metronidazole, and their combination on in vitro biofilm. J Periodontol. 2014 Feb;85(2):349-57. PMID: 23594193.

Martin SI, Kaye KM. Beta-lactam antibiotics: newer formulations and newer agents. Infect Dis Clin North Am. 2004 Sep;18(3):603-19. PMID: 15308278.

Weber DJ, Tolkoff-Rubin NE, Rubin RH. Amoxicillin and potassium clavulanate: an antibiotic combination. Mechanism of action, pharmacokinetics, antimicrobial spectrum, clinical efficacy and adverse effects. Pharmacotherapy. 1984 May-Jun;4(3):122-36. PMID: 6739312.

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