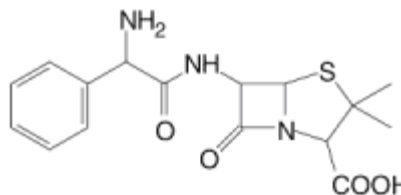


Product Data Sheet

Cat # ABT-030-05	<b>Ampicillin Trihydrate, Sodium (Pharma Grade)</b>	<b>Size: 5 g</b>
Cat # ABT-030-25	<b>Ampicillin Trihydrate, Sodium (Pharma Grade)</b>	<b>Size: 25 g (Bulk &amp; Custom)</b>

General Information

**Ampicillin** is a beta-lactam antibiotic that has been used extensively to treat bacterial infections since 1961. Until the introduction of ampicillin by the British company Beecham, penicillin therapies had only been effective against Gram-positive organisms such as staphylococci and streptococci. Ampicillin (originally branded as 'Penbritin') also demonstrated activity against Gram-negative organisms such as *H. influenzae*, coliforms and *Proteus* spp. Ampicillin was the first of a number of so-called broad spectrum penicillins subsequently introduced by Beecham. Ampicillin is part of the aminopenicillin family and is roughly equivalent to its successor, amoxicillin in terms of spectrum and level of activity.[1] It can sometimes result in reactions that range in severity from a rash (in the case of patients that may unwittingly have mononucleosis) to potentially lethal allergic reactions such as anaphylaxis. However, as with other penicillin drugs, it is relatively non-toxic and adverse effects of a serious nature are encountered only infrequently



**Molecular Formula:** (C<sub>16</sub>H<sub>19</sub>N<sub>3</sub>O<sub>4</sub>S·3H<sub>2</sub>O)  
**Molecular Weight:**  
403.45 g/mol

Above is the anhydrous form. It is prepared as the trihydrate form attached to 3 water (H<sub>2</sub>O) molecules.

A typical Certificate of Analyses

<b>Synonym:</b>	D-(-)-α-Aminobenzylpenicillin, Ampicillin trihydrate
<b>CAS Number:</b>	7177-48-2
<b>Empirical Formula (Hill Notation):</b>	C <sub>16</sub> H <sub>19</sub> N <sub>3</sub> O <sub>4</sub> S · 3H <sub>2</sub> O
<b>Molecular Weight:</b>	403.45
<b>Beilstein Registry Number:</b>	5399534
<b>EC Number:</b>	200-709-7
<b>MDL number:</b>	MFCD00072036
<b>PubChem Substance ID:</b>	24890564
<b>Solubility</b>	13 mg/ml
<b>mp</b>	198-200 °C (dec.)(lit.)
<b>suitability</b>	meets USP testing specifications
<b>Storage temp.</b>	2-8 °C

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

ABT-020-05                      110531AO

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