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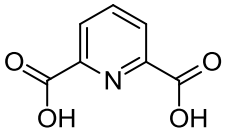
PRODUCT DATA SHEET

Dipicolinic acid

Code No.: **BIA-D1573**

Pack sizes: **5 mg, 25 mg**



Synonyms : 2,6-Pyridinedicarboxylic acid

Specifications

CAS #	:	**499-83-2**
Molecular Formula	:	**$C_7H_5NO_4$**
Molecular Weight	:	**167.1**
Source	:	***Beauveria* sp.**
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Dipicolinic acid is an amphoteric polar metabolite produced by many bacterial and fungal species. Prior to its discovery as a microbial metabolite, dipicolinic acid had long been recognised as a chelating agent for many metal ions. Wide distribution of dipicolinic acid among microbes makes it an important dereplication standard in discovery. Dipicolinic acid reaches high concentrations (~10% w/w) in Bacillus endospores aiding heat resistance and is used in laboratories as a marker for the effectiveness of sterilisation.

References

1. Isolation of dipicolinic acid (pyridine-2:6-dicarboxylic acid) from spores of Bacillus megatherium. Powell J.F. Biochem J. 1953, 54, 210.
2. Role of dipicolinic acid in survival of Bacillus subtilis spores exposed to artificial and solar UV radiation. Sliemandagger T.A. and Nicholson W.L. Appl. Environ. Microbiol. 2001, 67, 1274.

Updated: 2 December 2014

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