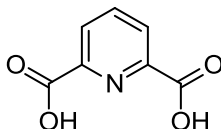


## Dipicolinic acid

Code No.: **BIA-D1573**

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



Synonyms : 2,6-Pyridinedicarboxylic acid

### Specifications

CAS #	: 499-83-2
Molecular Formula	: C <sub>7</sub> H <sub>5</sub> NO <sub>4</sub>
Molecular Weight	: 167.1
Source	: <i>Beauveria</i> 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.