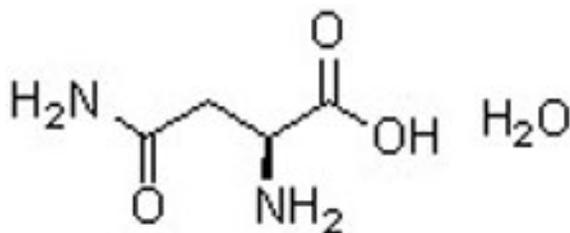


## Product Information Sheet

**A107**

### L-Asparagine Monohydrate



Synonym: (S)-2,4-Diamino-4-oxobutanoic Acid Monohydrate  
 $\alpha$ -Aminosuccinamic Acid Monohydrate

CAS: 5794-13-8

Formula:  $C_4H_8N_2O_3 \cdot H_2O$

Molecular Wt: 150.1

#### Properties

Form: Powder

Appearance: White Crystalline

Application: Amino Acid

Solubility: Water

Typical Working Concentration: Varies with application, should be determined by end user.

Storage Temp: Room Temperature

Other Notes: Plant Tissue Culture Tested  
Derived from a Plant Source

#### Application Notes

An amino acid sometimes used in tissue culture media. It is a source of reduced organic nitrogen commonly used for inducing and maintaining somatic or nonzygotic embryogenesis (Trigiano & Grey 2011).

#### References

Haroun SA, WM Shukry and O El-Sawy (2010) Effect of asparagine or glutamine on growth and metabolic changes in *phaseolus vulgaris* under in vitro conditions. *Bioscience Research*, 7(1): 01-21.

Trigiano RN and DJ Gray (2011) Plant Tissue Culture, Development, and Biotechnology. Boca Raton: CRC Press. Pp. 16. ISBN 1-4200-8326-0.

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