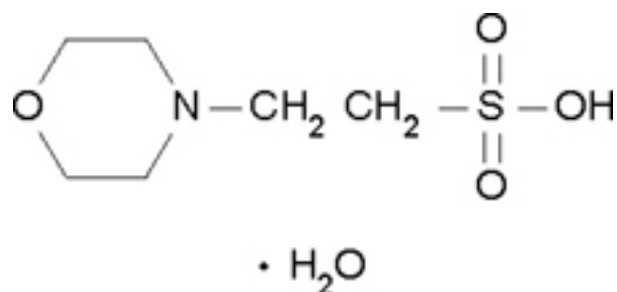


Product Information Sheet



M825 MES Monohydrate

Synonym: 2-(N-Morpholino)ethanesulfonic Acid Monohydrate

CAS: 145224-94-8

Formula: C₆H₁₃NO₄S•H₂O

Molecular Wt: 213.3

Properties

Form: Powder

Appearance: White Crystalline

Application: Buffer for plant tissue culture media

Solubility: Water

Storage Temp: Room Temperature

Storage Temp of Stock Solution: 2-6° C

Other Notes: Plant Tissue Culture Tested

Application Notes

PKa = 6.1 @ 25C;

Useful pH range 5.5-6.7

Commonly used to buffer pH in media where NH₄⁺ is the main or only nitrate source for the plant. As the NH₄⁺ is absorbed into the plant tissues, the pH of the media will fall accordingly (George, 1993). MES helps to minimize the pH change of the media when ion absorption is present.

References

George, EF (1993) Plant Propagation by Tissue Culture. Part 1. *The Technology*. Exegenetics, London.
Merck 13, 5929

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