

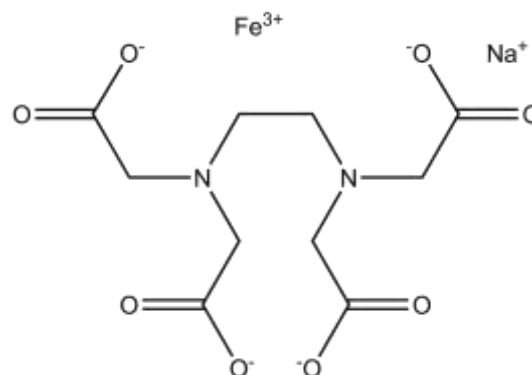


Product Information Sheet

E676

Ethylenediaminetetraacetic Acid, Ferric-Sodium Salt

Synonyms: FeNa-EDTA; Ethylenediaminetetraacetic Acid,
Iron(III)-Sodium Salt;
Ferric Sodium Edetate
CAS: 15708-41-5
Formula: $C_{10}H_{12}N_2O_8NaFe$
Mol. Weight: 367.05 g/mol



Properties:

Form: Solid
Appearance: Green to Brown Crystals
Application: Plant Micronutrient
Solubility: Water
Storage Temp: Room temperature
Typical Working Concentration: Varies by application. Concentration should be determined by end user.

Application Notes:

EDTA is the most commonly used chelating agent in plant tissue culture media. In aqueous solution it primarily chelates Iron (III) in plant tissue culture media from pH 4-6.5 (Halvorson and Lindsay, 1972). FeNa-EDTA inherently contains equimolar amounts of Iron and EDTA which is what is added to many popular plant tissue culture media (Murashige and Skoog, 1962, Lloyd and McCown, 1981).

Please Note: While PhytoTechnology Laboratories™ tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

References:

- Halvorson AD, and WL Lindsay (1972) Equilibrium Relationships of Metal Chelates in Hydroponic Solutions. *Soil Sci. Soc. Amer. Proc.* Vol. 36(5):755-761
Lloyd, G and BH McCown (1981) Commercially-feasible micropropagation of Mountain Laurel, *Kalmia latifolia*, by shoot tip culture. *Proc. Int. Plant Prop. Soc.* Vol. 30:421-427
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Murashige T, and F Skoog (1962) A revised medium for rapid growth and bioassays with tobacco tissue cultures. *Physiol. Plant.* Vol. 15:473-497

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