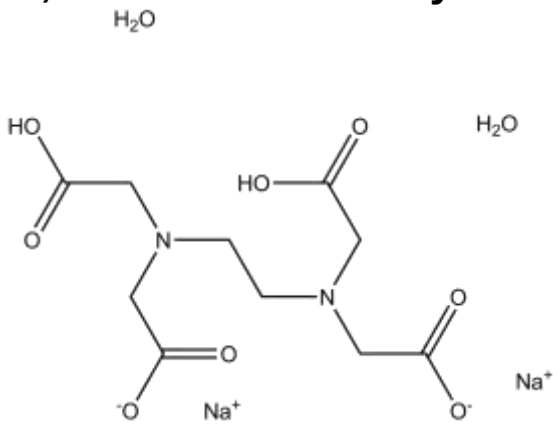
E410
EDTA, Disodium Salt Dihydrate

Synonym:	Ethylenediaminetetraacetic Acid Disodium Edetate Disodium
CAS:	6381-92-6
Formula:	$C_{10}H_{14}N_2O_8Na_2 \cdot 2H_2O$
MW:	372.24 g/mol



Properties:

Form:	Powder
Appearance:	White Powder
Application:	Chelating Agent
Solubility:	Water
Typical Working Concentration:	Varies by application, should be determined by the end user.
Storage Temp:	Room Temperature
Other Notes:	Plant Tissue Culture Tested

Application Notes:

EDTA is a chelating agent for metal salts in plant tissue culture media. It is also the most commonly used chelating agent in plant tissue culture media. It primarily chelates Iron (III) in plant tissue culture media from pH 4-6.5 (Halvorson and Lindsay, 1972) and is used in equimolar amounts to iron in many popular media (Murashige and Skoog, 1962, Lloyd and McCown, 1981).

*Phyto*Technology Laboratories® also carries a free acid form, Product No. E316.

Please Note: While *Phyto*Technology 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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