



Product Specification

cdhfinechemical.com

E.D.T.A 5% w/v SOLUTION

PRODUCT CODE 829100

Intended Use

EDTA (di-sodium) 5% is used as an in-vitro anticoagulant for diagnostic purposes.

Principle And Interpretation

Ethylene diamine tetraacetic acid is a calcium chelating agent. It has colourless crystalline nature which decomposes at 24°C and is slightly soluble in water and insoluble in common organic solvents. It can be neutralized by alkali-metal hydroxides to form a series of water-soluble salts containing one to four alkali metal cations. It has many uses and applications in various aspects. In the biological field, it is mainly used as an anticoagulant of blood, where the calcium in blood is bound in a unionized and soluble complex with EDTA. Ethylenediamine tetraacetic acid (EDTA) is a polyprotic acid containing four carboxylic acid groups and two amine groups with lone-pair electrons that chelate calcium and several other metal ions. Calcium is necessary for a wide range of enzyme reactions of the coagulation cascade and its removal irreversibly prevents blood clotting within the collection tube. Historically, EDTA has been recommended as the anticoagulant of choice for hematological testing because it allows the best preservation of cellular components and morphology of blood cells.

PARAMETER

LIMIT

Description	A clear colourless liquid.
Solubility	Miscible in water.
Concentration	About 5.0%

Directions

1. Dispense EDTA (di-sodium) 5 % into test tube.
2. Add blood and mix gently by inversion of the stoppered tube.

Note(s) : Assay (if applicable) method mentioned.

WARNING

Hazard statements: Not hazardous. No hazards.

Precautionary statements

Prevention: -----

Response: -----

Disposal:-----

IMDG Code : --

UN No. : --

IATA : --

Hazard Pictogram(s) :

Replace date 23-Dec-2023