

CLINICAL UPDATE

Brand Name	Tralement™
Generic Name	trace elements injection 4
Drug Manufacturer	American Regent Inc, a division of Luitpold Pharmaceuticals

Clinical Update

Clinical Update: FDA Approves Tralement™ (trace elements injection 4*)

Injection: 1 mL in a single-dose vial. Each mL contains zinc 3 mg, copper 0.3 mg, manganese 55 mcg, and selenium 60 mcg for intravenous use.

FDA approval date: July 02, 2020

Overview

Tralement™ is a combination of trace elements (zinc sulfate, cupric sulfate, manganese sulfate, and selenious acid) indicated in adult and pediatric patients weighing at least 10 kg as a source of zinc, copper, manganese, and selenium for parenteral nutrition when oral or enteral nutrition is not possible, insufficient, or contraindicated.

TRACE ELEMENTS IMPORTANCE:

Copper: Cofactor for serum ceruloplasmin, an oxidase necessary for proper formation of the iron carrier protein, transferrin; also helps maintain normal rates of red and white blood cell formation and prevents development of leukopenia, neutropenia, anemia, depressed ceruloplasmin levels, impaired transferrin formation, and secondary iron deficiency.

Manganese: Activator for enzymes such as polysaccharide polymerase, liver arginase, cholinesterase and pyruvate carboxylase, and prevents development of nausea and vomiting, weight loss, dermatitis, and changes in growth and hair color.

Selenium: Protects cell components from oxidative damage due to peroxides produced in cellular metabolism and prevents development of muscle pain and tenderness.

Zinc: Facilitates wound healing, helps maintain normal growth rates, normal skin hydration, and senses of taste and smell, and prevents development of parakeratosis, hypogeusia, anorexia, dysosmia, geophagia, hypogonadism, growth retardation, and hepatosplenomegaly.

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