07/19



## Ceruloplasmin, Human Plasma

CATALOG NO: P1452-1 1 mg

ALTERNATE NAMES: CER, CP, CP-2, Ferroxidase

MOL. WT. 132,000

SOURCE: Human Plasma

PURITY: >95%

FORM: Lyophilized

FORMULATION: Lyophilized from 50 mM potassium phosphate, 100 mM potassium chloride, 20 mM EACA, and 5 mM

EDTA, pH 6.8.

**RECONSTITUTION:** Reconstitute in De-ionized water. Store in aliquots at -20°C.

STORAGE CONDITIONS: Store at -20°C. Once reconstituted store in aliquots at -20°C. Avoid repeated freeze-thaw cycles.

**DESCRIPTION:** Human Ceruloplasmin (CER) is officially known as ferroxidase or iron(II):oxygen oxidoreductase. CER is an

enzyme synthesized in the liver containing 8 atoms of copper in its structure. Although Human CERULOPLASMIN (CER) is often considered a copper transport protein, this is not its primary function, just as human hemoglobin is not a carrier of iron, although it contains iron.

The main carrier for copper in the plasma of humans is albumin. Ceruloplasmin enzyme (ferroxidase) catalyzes the oxidation of ferrous iron (Fe2+) to ferric iron (Fe3+), therefore assisting in Human Ceruloplasmin enzyme transport in the plasma in association with transferrin, which can only carry iron in the ferric state

Negative or non-reactive at the donor level for anti-HIV 1 and 2, anti-HCV, HBsAg, HCV NAT, HIV-1 NAT and syphilis by FDA approved methods.

FOR RESEARCH USE ONLY! Not to be used on humans.

