

Copper Kit Colorimetric Method

Intended Use:

Copper is widely distributed in the various organs of the body. The highest concentration is found in the liver followed by the brain and kidneys. It plays an important part in iron metabolism by converting the ferrous ions to a ferric state. Over 90 % of the copper in plasma is bound to the protein ceruloplasmin. Increased levels are found in chronic / malignant diseases eg. Leukemia, cirrhosis, various infections and in patients on oral contraceptives and estrogens. Decreased levels are found in Wilson's disease, decreased synthesis of ceruloplasmin, malabsorption, malnutrition and nephrotic syndrome. Copper kit uses the colorimetric method to determine copper in serum.

Copper Kit components:

| | |
|--------------------------|-----------------------------|
| L1 | Buffer Reagent |
| L2 | Color Reagent |
| Standard | Copper Standard (200 µg/dl) |
| Other Accessories | Package Insert |

System Parameters

| | | | |
|---------------------|-----------------|---------------------|--------------|
| Reaction | : End Point | Interval | : --- |
| Wavelength | : 578 nm | Sample Vol. | : 0.05 ml |
| Zero Setting | : Reagent Blank | Reagent Vol. | : 1.00 ml |
| Incub. Temp | : R.T. | Standard | : 200 µg/dl |
| Incub. Time | : 10 min. | Factor | : --- |
| Delay Time | : --- | React. Slope | : Increasing |
| Read Time | : --- | Linearity | : 500 µg/dl |
| No. of read | : --- | Units | : µg/dl |

| Storage / Stability | Temperature | Duration |
|------------------------------------|-------------|-----------|
| Unopened kit | 2-8°C | 18 Months |
| Opened Kit (Unmixed) | 2-8°C | 18 Months |
| In use stability (Working reagent) | 2-8°C | 3 Weeks |

| Available Pack Sizes | |
|----------------------|-------|
| 25 ml | 75 ml |