

R1: 1x14,5 mL • **REF** A R3330000036
R2: 1x2,4 mL



SUMMARY AND EXPLANATION OF THE TEST

Ceruloplasmin is a copper oxidase enzyme, possible important in regulating the ionic state of iron and other metallic ions.
Levels are decreased in hepatoenticular degeneration or Wilson's disease and Menke's Kinky hear syndrome.
Levels are elevated by the acute phase response and particularly by estrogens.

PRINCIPLE OF THE TEST

Measurement of antigen-antibody reaction by the end-point method.

Ceruloplasmin Reagent Kit

Code R3330000038
Reagent 1 (R1) - Buffer - 1 x 14,5 mL/vial
Reagent 2 (R2) - 1 x 2,4 mL/vial

Each vial is ready to use and contains:

Reagent 1:	Conc.	U.M.
Phosphate buffered saline (pH 7.43)	/	/
Polyethylene glycol	40	g/L
Sodium azide	0,95	g/L
Reagent 2:	Conc.	U.M.
Phosphate buffered saline (pH 7.43)	/	/
Polyclonal goat anti-human Ceruloplasmin (variable)	/	/
Sodium azide	0,95	g/L

Reagent Preparation:

Liquids reagents ready for use.

Storage and Stability:

If stored at 2 - 8°C avoiding direct light, the reactants remain stable until the expiration date printed on the label.
Stability in the instrument is at least 4 weeks if contamination is avoided. Do not freeze.
Do not freeze the reagents.

EQUIPMENT / ACCESSORIES REQUIRED AND NOT SUPPLIED

General laboratory equipment
Saline (9 g/L)
Calibrators and/or Control
(Pooled human serum, liquid and stabilized. Contains 0.95 g/L sodium azide. Value is stated in the insert)

PRECAUTIONS AND LIMITATIONS

For *in vitro* diagnostic use.
Only experienced laboratory personnel should use this test and handling should be in agreement with Good Laboratory Practice (GLP).
Reagents from different lots must not be interchanged.

Safety Precautions

- Each donor unit used in the preparation of the reagents, standards and controls was found to be negative for the presence of HIV1 and HIV2 antibodies, as well as for the hepatitis B surface antigen and anti-hepatitis C antibodies, using a method approved by the FDA
- Do not pipet by mouth.
- Do not smoke, eat or apply cosmetics in areas in which patients' samples or kit reagents are handled.
- Cuts, abrasions, and other skin lesions should be properly protected with an appropriate waterproof dressing.
- Take care to avoid self-inoculation, splashing of mucous membranes or generation of aerosols.
- Laboratory gloves should be worn while handling patients' samples or disposing of solid or liquid wastes.
- In addition to the eventual risk indications regarding the active components, the reagents contain inactive components such as preservatives (e.g. sodium azide or others) and detergents. The total concentrations of these components is lower than the limits reported by the current directive sand following modification and amendments. However, it is recommended to handle reagents carefully, to avoid ingestion and contact with eyes, skin and mucus membranes and to use laboratory reagents according to good laboratory practice.
- All human samples must be handled and disposed of as potentially infectious materials.
- For information about safe handling, read carefully the Material Safety Data Sheet (MSDS).

Disposal of Reagents

Disposal of reagents must be performed in accordance with the EC regulations regarding waste, or the local national or regional legislation.

SPECIMEN COLLECTION AND STORAGE

Use fresh serum.
If the test can not be carried out on the same day, the serum may be stored at 2 - 8°C for 48 hours.
If stored for a longer period, the sample should be frozen.

ASSAY PROCEDURE

Allow reagents to reach working temperature before using.

Quality control

It's necessary, each time the kit is used, to perform the quality controls and to check that values obtained are within the acceptance range provided in the insert. Each laboratory should establish its own mean and standard deviation and adopt a quality control program to monitor laboratory testing.

Automation

All applications not explicitly approved by I.S.E. S.r.l. cannot be guaranteed in terms of performance, and must therefore be established by the operator.

Procedures

Sample/Control/Standard: Ready for use.
Reference curve: generate a reference curve by diluting the standard high level
Ref R1300002501 1:1, 1:2, 1:4, 1:8, 1:16 in saline 9 g/L. Use saline 9 g/L as zero point.

EXPECTED VALUES

22 - 61 mg/dL (IFCC)
Reference values are considered indicative since each laboratory should establish reference ranges for its own patient population. The analytical results should be evaluated with other information coming from patient's clinical history.

PERFORMANCE CHARACTERISTICS

The performance characteristics for the Ceruloplasmin reagents were measured on a clinical chemistry analyzer.

Measuring Range: 0 - 100 mg/dL
Detection Limit: 4.0 mg/dL
Hookeffect: > 400 mg/dL
Sensitivity: 0.0020 ABS units/concentration unit

Precision: [%CV]	Low	Medium	High
Intra-Run	6.31	2.07	2.20
Inter-Run	/	3.91	/

Accuracy: [mg/dL]	Control	Assigned	Measured
Bio-Rad 1	16 (13 - 20)		18.6
Bio-Rad 2	51 (41 - 61)		48.6

Specificity: Monospecific
Interferences: No interference for: Hemoglobin (1000 mg/dL), Na-citrate (1000 mg/dL), Heparin (50 mg/dL), Bilirubin (20 mg/dL), Triglyceride (2500 mg/dL).
Limitations: None
Stability at 4°C: at least 3 years after production

BIBLIOGRAPHY

- Poulik, M. D., and Weiss, M. L., in F. W. Putman, Editor, "The Plasma Proteins", vol. 2 second Edition, Academic Press, New York, pp. 52 - 108.



Numero lotto / Lot numer



Consultare la metodica operativa / consult instructions for use



Per uso diagnostico in-vitro / For in-vitro diagnostic use



Prodotto da / manufactured by



Data di scadenza / expiry date



Temp. Di Conservazione / storage temperature

