



User's Manual

Human Kynurenine ELISA kit

REF

DEIA-Z88432



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This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

Creative Diagnostics

 Address: 45-1 Ramsey Road, Shirley, NY 11967, USA

 Tel: 1-631-624-4882 (USA) 44-161-818-6441 (Europe)  Fax: 1-631-938-8221

 Email: info@creative-diagnostics.com  Web: www.creative-diagnostics.com

PRODUCT INFORMATION

Intended Use

enzyme Immunoassay for the quantitative determination of L-Kynurenine in serum and plasma.

Principles of Testing

The competitive ELISA uses the microtiter plate format. The antigen is bound to the solid phase of the microtiter plate. The acylated standards, controls and samples and the solid phase bound analyte compete for a fixed number of antibody binding sites. When the system is in equilibrium, free antigen and free antigen-antibody complexes are removed by washing. The antibody bound to the solid phase is detected by an anti-rabbit IgG-peroxidase conjugate using TMB as a substrate. The reaction is monitored at 450 nm.

Reagents And Materials Provided

Reaction Plat: 2 x 48 wells

Adhesive Foil: 1 x 4 pack

Wash Buffer Concentrate: 1 x 20 mL

Enzyme Conjugate: 1 x 12 mL

Substrate: 1 x 12 mL

Stop Solution: 1 x 12 mL

Standard A: 1 x 4 mL

Standard B: 1 x 4 mL

Standard C: 1 x 4 mL

Standard D: 1 x 4 mL

Standard E: 1 x 4 mL

Standard F: 1 x 4 mL

Kynurenine Antiserum: 1 x 6 mL

Acylation Buffer: 1 x 55 mL

Kynurenine Microtiter Strips: 1 x 96 wells

Acylation Reagent: 1 x 6 mL

Materials Required But Not Supplied

Calibrated precision pipettes to dispense volumes between 20 – 500 µl

Microtiter plate washing device (manual, semi-automated or automated)

ELISA reader capable of reading absorbance at 450 nm and if possible 620 – 650 nm Temperature controlled

incubator (37 °C) or similar heating device

Microtiter plate shaker (shaking amplitude 3 mm; approx. 600 rpm)

Absorbent material (paper towel)

Water (deionized, distilled, or ultra-pure)

Vortex mixer

Storage

Store the unopened reagents at 2 - 8 °C until expiration date. Do not use components beyond the expiry date indicated on the kit labels. Once opened the reagents are stable for 1 month when stored at 2 – 8 °C. Once the resealable pouch has been opened, care should be taken to close it tightly with desiccant again.

Reference Values

237.4 – 754.2 ng/ml

Precision

Intra-assay Precision: 10.3-12.9%

Inter-assay Precision: 13.3-17.5%

Detection Range

63.3 – 10 000 ng/ml

Sensitivity

45.7 ng/ml