

Creatinine (Urinary) Colorimetric Assay Kit (10 Plates)

Catalogue No.: CRE-001-10P

Description: Creatine synthesized in kidney, liver, and pancreas is transported in blood to muscle and brain where it is phosphorylated to phosphocreatine. Some free creatine in muscle is converted to creatinine. The amount of creatinine produced is proportional to the individual's muscle mass. In the absence of renal disease, the excretion rate of creatinine in an individual is relatively constant. Thus, urinary creatinine levels may be used as an index of standardization for other tests. Measurement of creatinine clearance is also useful in detecting renal disease and estimating the extent of impairment of renal function (1).

The Biosensis Creatinine (Urinary) Colorimetric Assay can be used to measure creatinine levels in urine. The assay relies on the Jaffe' reaction, wherein a yellow/orange color forms when the metabolite is treated with alkaline picrate (2). The color derived from creatinine is then destroyed at acidic pH. The difference in color intensity measured at 500 nm before and after acidification is proportional to the creatinine concentration (1,3-4). The sample creatinine concentration is determined using a creatinine standard curve. The Creatinine (Urinary) Colorimetric Assay is not recommended for plasma or serum samples.

Assay precision has been determined to be 2.7% (intra-assay, n = 84) and 3.0% (inter-assay, n=5).

This assay kit has not been tested for other applications. It has been configured for research use only and is not to be used for diagnostic or clinical procedures.

Related products: BEK-2239-1P, NGFR/p75ECD Rapid ELISA Kit: Human (1 Plate)
BEK-2239-2P, NGFR/p75ECD Rapid ELISA Kit: Human (2 Plates)

Receive a 20% discount on the Biosensis Creatinine (Urinary) Colorimetric Assay Kit if purchased together with one of our ELISA kits in one transaction. To receive a quote, contact us at sales@biosensis.com.

Batch No.: Refer to the product label.

Unit size: 10 Plates (960 wells)

Applications: Quantification of creatinine in human urine.

Specificity: Creatinine

Storage: This kit is shipped at room temperature. Upon receipt, store the assay kit at room temperature.

Expiry Date: Refer to expiration date on the outside of the box.

General References:

1. Bowers, L.D. and Wong, E.T. Clin. Chem. 26(5), 555-561 (1980).
2. Slot, C. Scand. J. Clin. Lab. Invest. 17, 381-387 (1965).
3. Heinegard, D. and Tiderstroem, G. Clinica. Chimica. Acta. 43, 305-310 (1973).
4. Cook, J.G.H. Ann. Clin. Biochem. 12, 219-232 (1975).

Kit components: The assay kit box contains 10 x 96-well solid microplates, creatinine standard, creatinine color

FOR RESEARCH USE ONLY

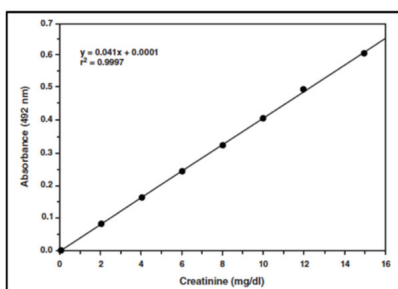
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reagent, sodium hydroxide, acid solution, sodium borate, surfactant, plate cover and a detailed protocol.

Range: 2 - 15 mg/dL

Kit protocol: Please refer to our online product listing for current protocol/MSDS versions.

MSDS: Please refer to our online product listing for current protocol/MSDS versions.



These standard curves generated in our laboratories are for demonstration purposes only, but can be used as a guide to expected performance. Standard curves should be generated for each assay.

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