

General Chromium Assay Kit

Chromium Microplate Assay Kit

CATALOG # AAA263948	REACTIVITY General	APPLICATIONS Functional Assay
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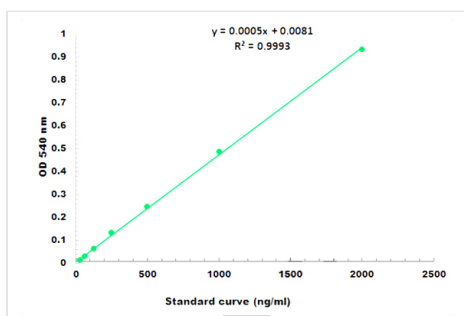
PRODUCT SYNONYMS

Chromium; Chromium Microplate Assay Kit; Chromium assay kit

PRODUCT SPECIFICATIONS

Reactivity	General
Samples	Serum, Plasma, Other biological fluids, Water, Soil, Food and Beverage Samples
Detection Range	20 ng/ml - 2000 ng/ml
Applicable Applications for Chromium assay kit	FA (Functional Assay)
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Chromium assay kit

Background: Chromium is widely used in various industries such as electroplating, leather tanning, chrome paint, dyeing, hardened steel, ceramic and glass industry. Chromium exists in two stable oxidation states, hexavalent Cr(VI) and trivalent Cr(III). Cr(VI) is produced solely by industrial processes, whereas in nature, chromium exists in its trivalent form. Cr(III) is generally regarded as nontoxic due to poor absorption. Cr(VI) is considered a pulmonary carcinogen and has tested positive in genotoxicity tests. It is one of the most serious pollutants in many water streams due to its carcinogenic potential. Most countries apply a legal limit of 50-100 ug/L Cr in drinking water. Chromium Microplate Assay Kit provides a sensitive colorimetric means to directly measure Cr(VI) in a sample. In the assay, Cr(III) can be converted to Cr(VI) with nitric acid/hydrochloric acid, thus allowing the determination of Cr(III) or total Cr [Cr(III) + Cr(VI)] in the sample. Cr(VI) forms a stable complex with a specific chromogenic dye. The optical density at 540nm is directly proportionate to the Cr(VI) concentration in the sample.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.