

Human Normetanephrine ELISA Kit

Normetanephrine (Plasma) ELISA

CATALOG #
AAA72593

REACTIVITY
Human

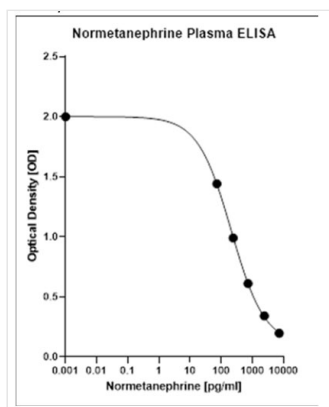
PRODUCT SYNONYMS

Normetanephrine; Normetanephrine (Plasma) ELISA; Normetanephrine elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Quantitative Competitive
Samples	Plasma
Design	Enzyme immunoassay (ELISA) technique.
Controls	2 controls, ready to use.
Assay Description	15 min. Centrifuge + 15 min. incubation (RT) + 15-20 hours (2-8 degree C) + 30 min. (RT) + 30 min. (RT) = 16-21 hours, 30 min.
Standards	6 calibrators, ready to use.
Sample Volume	500 uL
Preparation and Storage	2 - 8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Normetanephine elisa kit	Background: Metanephine and normetanephine are the metabolites of the catecholamines epinephrine and norepinephrine, respectively [1]. Cells derived from neuroendocrine tumors (e.g. pheochromocytoma and paraganglioma) are known to produce catecholamines, which are secreted episodically via vesicles into the blood stream [2, 3]. But beside this, a small portion of the catecholamines is metabolized inside the tumor cells to the corresponding catecholamines metabolites - namely metanephine, normetanephine (and 3-methoxytyramine in the case of dopamine) - which are secreted at low levels continuously into the blood stream [4, 5]. Principle of the Assay: Enzyme Immunoassay for the quantitative determination of free normetanephine in plasma. The determination of normetanephine helps in the detection of paragangliomas and pheochromocytomas. Normetanephine (normetadrenaline) is first extracted using an ion exchange matrix followed by an acylation process. The subsequent 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 compete with the solid phase bound analytes for a fixed number of antibody binding sites. After 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 resulting in a colour reaction. The reaction is monitored at a wavelength of 450 nm. Quantification of unknown samples is achieved by comparing their absorbance with a reference curve prepared with known standard concentrations. Manual processing of the ELISA is recommended. The use of automatic laboratory equipment is the responsibility of the user. This product is not intended to clinical identifiys. Intended Uses: Enzyme Immunoassay for the quantitative determination of free normetanephine in plasma. The determination of normetanephine helps in the detection of paragangliomas and pheochromocytomas. Normetanephine (normetadrenaline) is first extracted using an ion exchange matrix followed by an acylation process. The subsequent 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 compete with the solid phase bound analytes for a fixed number of antibody binding sites. After 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 resulting in a colour reaction. The reaction is monitored at a wavelength of 450 nm. Quantification of unknown samples is achieved by comparing their absorbance with a reference curve prepared with known standard concentrations. Manual processing of the ELISA is recommended. The use of automatic laboratory equipment is the responsibility of the user. This product is not intended to clinical identifiys.
Product Categories/Family for Normetanephine elisa kit	Oncology ; Biogenic Amines & Neurology ; Assay Categories

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/normetanephine/72593>