

Datasheet for ABIN930666 **Metanephrine ELISA Kit**



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Overview

Quantity:	1 kit
Target:	Metanephrine (MN)
Reactivity:	Hormone
Method Type:	Competition ELISA
Application:	ELISA

Product Details

Characteristics:	ELISA kit for the detection of 2 MET in the research laboratory Alternative Names: Metanephrin/Normetaphrin ELISA kit
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Target Details

Target:	Metanephrine (MN)
Alternative Name:	Metanephrine (MN Products)
Target Type:	Chemical
Background:	<p>Metanephrine is a metabolite of epinephrine created by action of catechol-O-methyl transferase on epinephrine. An article in the Journal of the American Medical Association, 2002, indicated that the measurement of plasma free metanephrines is the best tool in the diagnosis of pheochromocytoma, an adrenal medullary neoplasm. Normetanephrine is a metabolite of norepinephrine created by action of catechol-O-methyl transferase on norepinephrine. It is excreted in the urine and found in certain tissues. It is a marker for catecholamine-secreting tumors such as pheochromocytoma.</p> <p>Synonyms: Metanephrin/Normetaphrin ELISA kit.</p>

Application Details

Application Notes:	Optimal conditions to be determined by end-user
Assay Procedure:	<p>First, the plasma proteins are removed by precipitation. After this Metanephrine (Metadrenaline) and Normetanephrine (Normetadrenaline) are acylated. The subsequent competitive ELISA kit 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 analytes compete for a fixed number of antiserum binding sites. After the system is in equilibrium, free antigen and free antigenantiserum complexes are removed by washing. The antibody bound to the solid phase is detected by an antirabbit IgGperoxidase conjugate using TMB as a substrate. The reaction is monitored at 450 nm. Determination of unknown samples is achieved by comparing their absorbance with a reference curve prepared with known standards. The antisera used in this test kit only recognise the biologically relevant Lforms of metanephrines. Commercially available synthetic normetanephrine or metanephrine is always a mixture of the D and Lforms. The ratio between both forms differs widely from lot to lot. This has important implications if synthetic metanephrines are used to enrich native samples. As only about 50 % of the synthetic metanephrines the Lportion will be detected by use of this kit, spiked samples will be underestimated. Therefore native samples containing solely the Lform should be used.</p>
Restrictions:	For Research Use only

Handling

Storage:	4 °C
Storage Comment:	Store at 2-8 °C.