

Product Datasheet

Melatonin ELISA Kit (Colorimetric) NBP2-62160

Unit Size: 1 Kit

Storage of components varies. See protocol for specific instructions.

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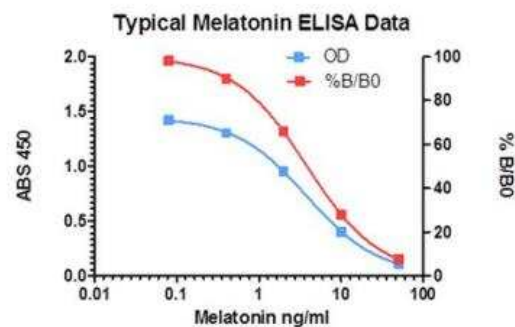
NBP2-62160**Melatonin ELISA Kit (Colorimetric)**

Product Information	
Unit Size	1 Kit
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Storage of components varies. See protocol for specific instructions.
Product Description	
Kit Components	Goat anti-mouse IgG Microtiter Plate, Assay Buffer 10, Standard, Wash Buffer Concentrate, Antibody, Tracer, Conjugate, TMB Substrate, and Stop Solution
Standard Curve Range	0.08-50 ng/ml
Sensitivity	0.162 ng/ml
Inter Assay	Low Concentration %CV - 17.54% High Concentration %CV - 7.36%
Intra Assay	Low Concentration %CV - 13.74% High Concentration %CV - 4.31%
Assay Type	Competitive ELISA
Spiking Recovery	Human Serum Low - 124% Medium - 83% High - 102% Human EDTA Plasma Low - 112.2% Medium - 90% High - 101% Rat Serum Low - 112.4% Medium - 99.6% High - 89.7% Mouse Serum Low - 115.6% Medium - 105.8%
Suitable Sample Type	Saliva, serum, plasma, fruit samples
Sample Volume	100 uL
Product Application Details	
Applications	ELISA
Recommended Dilutions	ELISA

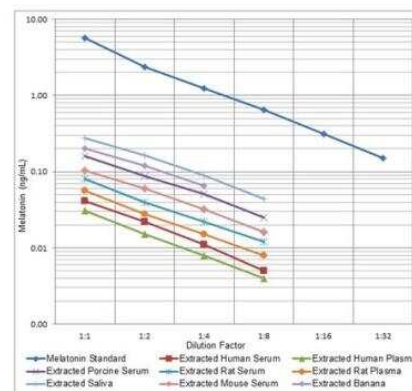


Images

ELISA: Melatonin ELISA Kit (Colorimetric) [NBP2-62160] - Standard Reference Curve



ELISA: Melatonin ELISA Kit (Colorimetric) [NBP2-62160] - To assess parallelism, human serum and EDTA plasma samples, human saliva, porcine along with other matrix samples were serially diluted in 1X Stabilizer. The samples were then run in the assay. The melatonin concentration in each sample was determined from the standard curve. Concentrations were plotted as a function of sample dilution. Parallelism of the curves demonstrates that the standard binding characteristics are similar enough to allow the accurate determination of native melatonin levels in diluted samples matrices of animal and plant origin.



Publications

Baojing Zhao, Zhen Yu, Junjie Sun, Weisheng Cheng, Tao Yu, Yuanyuan Yang, Zhaolian Wei, Zongzhi Yin Light pollution during pregnancy influences the growth of offspring in rats. *Ecotoxicology and environmental safety* 2024-05-23 [PMID: 38788564]

David J Kennaway Measuring melatonin by immunoassay. *Journal of pineal research* 2021-08-19 [PMID: 32281677]

Kennaway DJ Can we believe results obtained from plasma melatonin ELISA kits? *Chronobiology international* 2021-03-04 [PMID: 33663310]



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. ELISA Kits are guaranteed for 6 months from date of receipt.

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