

# 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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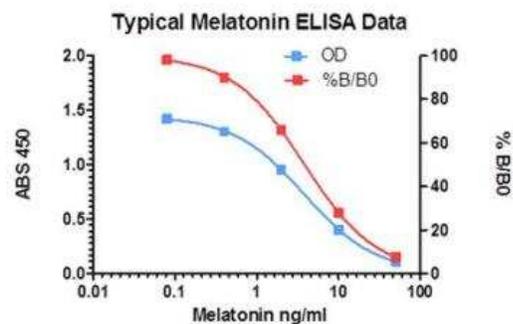


**NBP2-62160****Melatonin ELISA Kit (Colorimetric)**

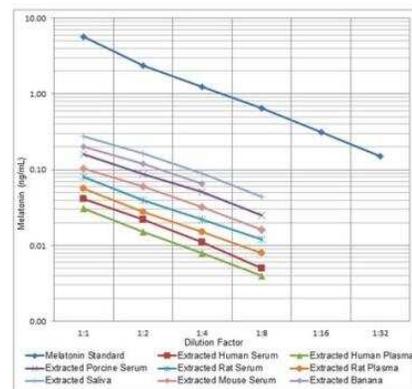
<b>Product Information</b>	
<b>Unit Size</b>	1 Kit
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Storage of components varies. See protocol for specific instructions.
<b>Product Description</b>	
<b>Kit Components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