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For Investigational Use Only

Unfractionated Heparin (UFH) ELISA Kit
for Rodent Plasma Samples

Product No: K-2150

INTENDED USE: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT INTENDED FOR CLINICAL OR DIAGNOSTIC USE.

Kit includes:

Heparin-coated 96-well plate
Conjugate Diluent
Detector -Enzyme Conjugate
TMB Solution
Stop Solution, 0.5M H₂SO₄
Wash Concentrate 10X, (dilute 1 part plus 9 parts dH₂O to make TBS-0.05% TWEEN 20)

Researcher must provide:

Pipettes (8-channel multipipettor recommended)
Absorbance microplate reader
Plate Cover
Normal Plasma

Storage and Stability

Kit can be stored unopened at 4°C for up to six months. Opened solutions can be used for up to one week when stored at 4°C. The TMB solution should be protected from light. Reconstituted detector enzyme conjugate should be used immediately or aliquotted and stored at -80°C.

Background

Heparin is a glycosaminoglycan with alternating uronic acid and aminoglycoside units. It is an anticoagulant used either in its native unfractionated form (UFH) MW ~16 kD or in various partially depolymerized forms (LMWH) of 4-8 kD. The heparin-ELISA product number K-2150 is a quantitative enzyme-linked assay designed for the *in vitro* measurement of unfractionated heparin levels in rodent plasma. This assay measures heparin directly using a heparin binding protein which has been conjugated to HRP.

The heparin-ELISA is a competitive assay in which the colorimetric signal is inversely proportional to the amount of heparin present in the sample. Samples to be assayed are first mixed with the Detector-Enzyme Conjugate in wells of the heparin coated plate. Heparin in the sample competes with heparin bound to the plate for binding of the Detector-Enzyme Conjugate. The concentration of heparin in the sample is determined using a standard curve of known amounts of heparin. **For best results, the heparin used for the standard curve should match the type of heparin being assayed.**

