



Lifespan Technologies
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Product No: S-6000
Heparan Sulfate ELISA for Plasma
Liquid Stable Conjugate
Range 0.1 – 30µg/ml

S-6000: Heparan Sulfate (HS) ELISA for Plasma Samples

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

Kit includes:

Coated 96-well plate
Detector -Enzyme Conjugate (stabilized liquid)
TMB Solution
Stop Solution
Wash Concentrate 10X, (dilute 1 part plus 9 parts water)

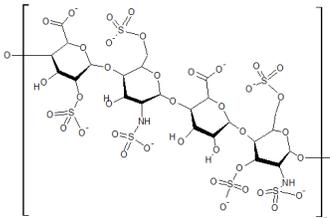
Researcher must provide:

Pipettes (8 Channel Multipipettor is recommended)
Absorbance microplate reader
Heparan Sulfate standards from your heparan sulfate
Standard Diluent Normal Plasma (platelet depleted)
Plate Cover

Storage and Stability

Kit can be stored unopened at 4°C for up to six months. The Detector-Enzyme Conjugate Solution and the TMB solution should be protected from light.

Background



Heparan sulfate (HS) is a glycosaminoglycan that is found on the surface of most cells as part of proteoglycans. Heparan sulfate is also present in the extracellular matrix. The polysaccharide mediates the interactions between a number of different proteins.

The HS ELISA, product number S-6000, is a quantitative enzyme-linked assay designed for the *in vitro* measurement of HS levels in plasma. This assay measures HS directly using a HS binding protein which has been conjugated to HRP.

The HS ELISA is a competitive assay in which the colorimetric signal is inversely proportional to the amount of HS present in the sample. Samples to be assayed are first mixed with the detector-enzyme conjugate in wells of the coated plate. HS in the sample competes with HS bound to the plate for binding of the detector-enzyme conjugate. The concentration of HS in the sample is determined using a standard curve of known amounts of HS.

Crossreactivity

Other endogenous glycosaminoglycans such as hyaluronic acid, keratan sulfate and chondroitin sulfate cross-react less than 1%.

Reagent Preparation

Heparan Sulfate Standards: Prepare standards using fresh normal human plasma that has been platelet depleted and your Heparan Sulfate to obtain standards of 0.1, 0.3, 1, 3, 10, and 30µg/mL. **Standardization should be performed using Heparan Sulfate that is the same Heparan Sulfate type contained in your unknowns.**

1X Wash Buffer: Make a 1:10 dilution of 10X Wash Buffer in distilled or deionized water.

