



Lifespan Technologies
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Product No: **S-3900**
Liquid Stable Conjugate
Dextran Sulfate 5000 or 500,000MW
Range: 0.003- 1.0 µg/mL
ELISA for Buffer

Dextran Sulfate (5000 or 500,000 MW) ELISA Kit for Buffer 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 Solution
TMB Solution
Stop Solution
Wash Concentrate 10X, (dilute 1 part plus 9 parts water)

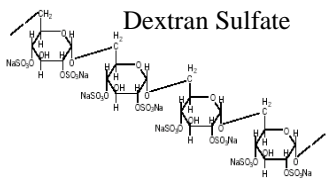
Researcher must provide:

Pipettes (8 Channel Multipipettor is recommended)
Absorbance microplate reader
Dextran sulfate standards
Tris Buffered Saline (TBS) pH 7.5 (10mM Tris 150mM NaCl)
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



Dextran Sulfate is in the family glycosaminoglycan. It is a polyanionic dextran derivative which may be synthesized from various high purity and well-characterized dextran fractions. In clinical research, anticoagulant dextran sulfate properties have been tested as a possible substitute for heparin in anticoagulant therapy. Another source of interest relates to the effect of dextran sulfate on enzyme inhibition in certain biological systems. Dextran sulfate is used to precipitate LDL and VLDL in plasma fractionation procedures. Dextran sulfate must then be removed from the product. The S-3900 assay allows measurement of extremely low levels of dextran sulfate and gives manufacturers

quantitative data that they have removed dextran sulfate from their product.

The dextran sulfate ELISA product number S-3900 is a quantitative enzyme-linked assay designed for the *in vitro* measurement of dextran sulfate levels in low protein content fluids such as buffer or urine. This assay measures dextran sulfate directly using a dextran sulfate binding protein which has been conjugated to HRP.

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

Reagent Preparation

Dextran Sulfate Standards: Make dilutions of your dextran sulfate using Tris Buffered Saline (TBS) pH 7.5 (10mM Tris 150mM NaCl) to obtain standards of 0.003, 0.01, 0.03, 0.1, 0.3, and 1.0 µg/mL. **Standardization should be performed using dextran sulfate that is the same dextran sulfate type contained in your unknowns.**

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

