Bisphenol S (BPS) ELISA Kit

Catalog number: EK7125

For detection of multiple analytes using one single assay.

This package insert must be read in its entirety before using this product.

For research use only. Not for use in diagnostic procedures.

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

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Catalog Number: EK7125

Size: 96 wells/kit

Sample Type: See datasheet for sample type details

Sensitivity: 10pg/ml

Assay Range: 10-1,000,000pg/ml

Storage: All components are stored below -20°C and should not be re-frozen and thawed more than necessary. (Ship on dry ice.)

Introduction

This competitive ELISA kit is for determination of BPS levels in biological, food and water samples. A typicalstandard curve of the ELISA (detection limit, 10 pg/ml) is shown on page 6. BPS is a phenolic environmentalestrogen which disrupts endocrine activity. Recently, BPS has been used to replace BPA in the manufacturing ofproducts containing polycarbonates and epoxy resins1. Prenatal exposure of mice to BPS induced precociousdevelopment of the mammary gland with an incidence greater than found with BPA2.

This kit can be used for the determination of BPS in biological samples such as urine, serum, plasma, cells, andtissues following proper isolation and purification. The kit can also be used to measure BPS in water and foodsamples. Instructions are provided as to the proper isolation and purification in the following pages.The free BPA level in urine or cell culture media can be measured using the BPA ELISA, without ethyl acetateextraction after 4-fold dilution of the sample.

This competitive ELISA kit, based on competition between the BPS epitope and BPS-HRP conjugate for a limitednumber of binding sites in each well of the 96 well ELISA plate that has been coated with an antibody to BPS. Theconjugate concentration is held constant in each well, while the concentration of the BPS is variable, based on theconcentration of the sample or standard. Thus the amount of the BPS conjugate which is able to bind to each of thewells is inversely proportional to the concentration of BPS in the standard or sample. The amount of the conjugatewhich is bound to each well is then determined by the amount of color obtained, when the HRP substrate, TMB, isadded. With the addition of sulfuric acid, the blue colored product is converted into a yellow colored product, whichcan be read on a plate reader at 450 nm.

Kit Components

See datasheet for kit components details

Materials Required, but Not Provided

See datasheet for other equipment and materials needed but not provided

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