



User's Manual

Anti-PEth Autologous IgG ELISA Kit

REF

DEIA-XYZ20



96T



RUO

This product is for research use only and is not intended for diagnostic use.

For illustrative purposes only. To perform the assay the instructions for use provided with the kit have to be used.

Creative Diagnostics

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PRODUCT INFORMATION

Intended Use

The Anti-PEth Autologous IgG ELISA Kit is a direct assay in which the signal is proportional to the amount of autologous anti-PEth IgG contained in the sample.

General Description

Ethanol (EtOH) has multiple effects on humans and other animals. Alcohol addiction and organ damage are active areas of research with a need for research reagents and tools.¹ Phosphatidylethanol (PEth) is a direct metabolite of EtOH and has been described as a long-lived biomarker for alcohol ingestion.^{2, 3} It is possible that PEth is involved in the neurological⁴, protective⁵, and harmful⁶ effects of alcohol, but the mechanisms are still being explored. Autologous anti-PEth antibodies are found in lower abundance in serum from heavier drinkers. This inverse relationship between anti-PEth IgG levels and alcohol ingestion was first reported, by Nissinen et. al.⁷ Evaluation of serum samples of varying consumption habits has demonstrated a high degree of correlation with ingested alcohol. Measuring these autologous anti-PEth IgG levels may serve as an effective biomarker in monitoring alcohol use.

Reagents And Materials Provided

1. Anti-PEth Detection Plate: 1 plate
2. Anti-PEth IgG Standard: 1 vial (for 4 replicates)
3. Sample Diluent: 1 bottle (24 mL)
4. Secondary Detector: 1 vial
5. Secondary Diluent: 1 bottle (12 mL)
6. TMB Solution: 1 bottle (12 mL)
7. 1 N H₂SO₄ Stop Solution: 1 bottle (10 mL)
8. PBS Tablets: 2 tablets
9. Microtiter Plate Seals: 2 seals

Materials Required But Not Supplied

1. Microtiter plate reader capable of reading absorbance at 450 nm.
2. Serum or Plasma Samples
3. Pipettes (capable of delivering between 5 and 1,000 µL with appropriate tips)
4. Multichannel pipettes

Storage

4°C



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