Datasheet for ABIN2964862

Pseudomonas Exotoxin A ELISA Kit

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Overview

Quantity:	96 tests
Target:	Pseudomonas Exotoxin A (PEA)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.156 ng/mL - 10 ng/mL
Minimum Detection Limit:	0.156 ng/mL
Application:	ELISA

Product Details

Purpose:	Human Pseudomonas Exotoxin A ELISA Kit is an ELISA kit against Human Pseudomonas Exotoxin A.
Sample Type:	Serum, Plasma
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	< 0.094 ng/mL
Components:	1. One 96-well plate pre-coated with anti-Human PEA antibody 2. Lyophilized Human PEA standards: 2 tubes 3. Sample / Standard diluent buffer: 20ml 4. Biotin conjugated anti-Human PEA antibody (Concentrated): 120 µl. Dilution: 1:100 5. Antibody diluent buffer: 10 ml 6. HRP Streptavidin Conjugate (SABC) (Concentrated): 120 µl. Dilution: 1:100

Product Details

	7. SABC diluent buffer: 10 ml 8. TMB substrate: 10 ml 9. Stop solution: 10 ml 10. Wash buffer (25X): 30 ml
Material not included:	1. 37°C incubator 2. Microplate reader (wavelength: 450nm) 3. Pipettes and disposable pipette tips 4. Automated plate washer (optional) 5. ELISA shaker 6. 1.5 ml tubes 7. Plate cover 8. Absorbent filter papers 9. Plastic or glass container with volume greater than 1L

Target Details

Target:	Pseudomonas Exotoxin A (PEA)
Alternative Name:	Pseudomonas Exotoxin A (PEA Products)
Background:	The Pseudomonas exotoxin (or exotoxin A) is an exotoxin produced by Pseudomonas aeruginosa. It inhibits elongation factor-2. It does so by ADPribosylation of EF2. This then causes the elongation of polypeptides to cease. The mechanism of the toxin is similar to that of Diphtheria toxin. It has been investigated as a treatment for hepatitis B and cancer.

Application Details

Application Notes:	Stability: The stability of the kit is determined by the rate of activity loss. The loss rate is less than 5 % within the expiration date under appropriate storage conditions. To minimize performance fluctuations, operation procedures and lab conditions should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same user throughout. Recommended dilutions: Optimal dilutions/concentrations should be determined by the end user. Standard Form: Lyophilized
Plate:	Pre-coated
Protocol:	This kit is based on sandwich enzyme-linked immune-sorbent assay technology. Anti-PEA antibody is pre-coated onto 96-well plates. Biotin conjugated anti-PEA monoclonal antibody is

Application Details

	used as a detection antibody. The standards, test samples and biotin conjugated detection antibody are added to the wells and washed with wash buffer. HRP Streptavidin is added and unbound conjugates are washed away with wash buffer. TMB substrate is used to visualize HRP enzymatic reaction. TMB is catalyzed by HRP to produce a blue colour product that changes into yellow after adding stop solution. The density of yellow is proportional to the PEA amount of sample captured in plate. The O.D. absorbance is measured spectrophotometrically at 450nm in a microplate reader, and then the concentration of PEA can be calculated.
Restrictions:	For Research Use only

Handling

Storage:	4 °C/-20 °C
Storage Comment:	Upon receipt, store the kit according to the storage instruction in the kit's manual.
Expiry Date:	6 months