

(FOR RESEARCH USE ONLY. DO NOT USE IT IN CLINICAL DIAGNOSIS!)

Cerebrospinal Fluid (CSF) Protein Assay Kit

Catalog No.: BC00217

Size: 50T

Please read the instructions carefully before use. If you have any questions or need further help during experiment, please don't hesitate to contact us through the following methods:

✉ Email (Sale)	order@enkilife.com
✉ Email (Techsupport)	techsupport@enkilife.com
☎ Tel:	0086-27-87002838
🌐 Website:	www.enkilife.com

Shelf life: Please refer to the label on the outer package.

Techsupport: In order to provide you with better service, please inform us the lot number on the label of the outer package.

Basic Information

Product Name	Cerebrospinal Fluid (CSF) Protein Assay Kit
Detection Method	Colorimetric
Sample Type	Cerebrospinal Fluid
Assay Type	Quantitative
Detection Instrument	Spectrophotometer (620 nm)

Product Introduction

The protein level in cerebrospinal fluid (CSF) often increases in central nervous system diseases, such as various meningitides, encephalitis, cerebral hemorrhage, cerebral thrombosis and Froin syndrome. In purulent meningitis, the CSF protein concentration can exceed 1 g/L.

Principle

Protein in cerebrospinal fluid reacts with sulfosalicylic acid to form a precipitate, and the protein content can be determined by colorimetry.

Components

No.	Components	Size	Note
Reagent 1	Sulfosalicylic acid solution	80 mL×2	Store at 4°C.
Reagent 2	1 g/L Protein Standard Solution	6 mL×1	Store below -20°C.

Storage

The kit can be stored for 6 months under specified conditions.

Operation process

	Blank well	Standard well	Assay well
Normal saline (mL)	1		
1 g/L Protein Standard Solution (mL)		1	
Sample (mL)			1
Sulfosalicylic acid solution (mL)	3	3	3
Mix well and let stand for 5 minutes. Set the spectrophotometer to a wavelength of 620 nm with a 1 cm optical path, zero with double distilled water, then measure the absorbance (A) of each tube.			

Calculation

$$\text{CSF Protein content (g/L)} = \frac{A_{\text{Assay}} - A_{\text{Blank}}}{A_{\text{Standard}} - A_{\text{Blank}}} \times C_{\text{Standard}}$$

C_{Standard} : Standard solution concentration, 1 g/L

Reference Range

0.15-0.4g/L

Precautions

1. It is recommended to use disposable laboratory test tubes for operation.
2. This product is intended for scientific research use only by professionals and must not be used for clinical diagnosis or treatment, in food or drugs, or stored in ordinary residences.