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Phospholipids

Choline oxidase-DAOS method

- Phospholipid specific enzymatic assay
- Measures Sphingomyelin, Lecithin, and Lysolecithin
- Linear up to 1000 mg/dL



Phospholipids play an important function in the composition of cell membranes and in the emulsification and absorption of fat in the body. Serum phospholipids are formed in the liver, where they become bound to apolipoproteins, which makes them soluble in plasma. The FUJIFILM Wako Phospholipids C assay is an enzymatic method utilizing choline oxidase in a reaction which can be measured photometrically. This assay has been shown not to be significantly influenced by coexisting substances such as ascorbic acid and bilirubin.

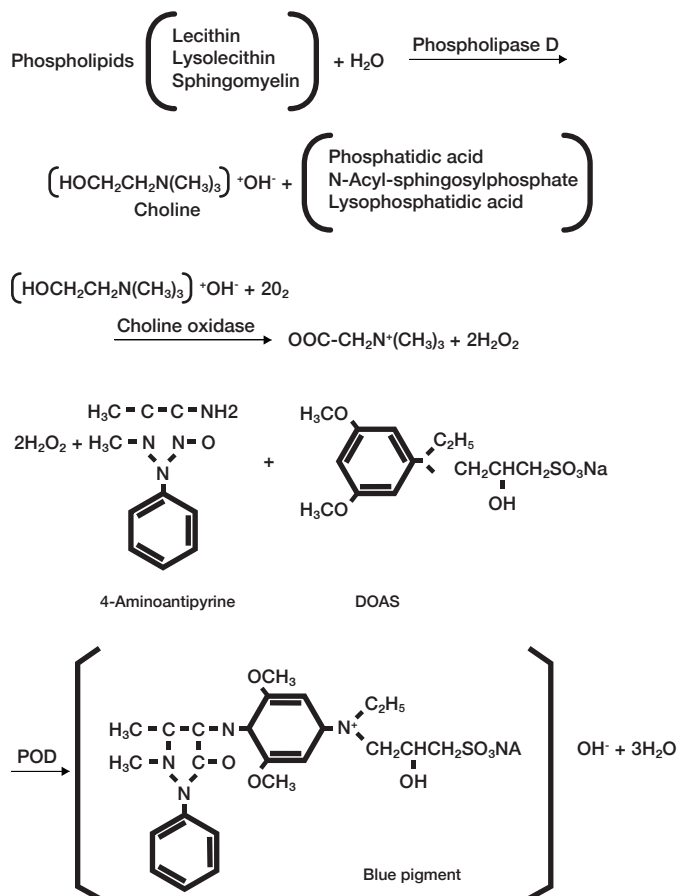
Catalog No.	Product Name	Pkg Size	Storage
997-01801	Phospholipids C		
	Buffer Solution	8 X 50 mL	2-10°C
	Color Reagent	8 X for 50 mL	2-10°C
	Standard Solution	2 X 10 mL	2-10°C

PERFORMANCE CHARACTERISTICS

Principle

When a sample is added to the Color Reagent, phospholipids (lecithin, lysolecithin, sphingomyelin) in the sample are hydrolyzed by phospholipase D to produce choline, which in turn is oxidized by choline oxidase to betaine and hydrogen peroxide. The hydrogen peroxide produced causes N-ethyl-N-(2-hydroxy-3-sulfopropyl)-3,5-dimethoxyaniline (DAOS) and 4-aminoantipyrine to undergo a quantitative oxidative condensation catalyzed by peroxidase (POD), producing a blue pigment. The amount of phospholipids in the sample is determined by measuring the absorbance of the blue color.

Method

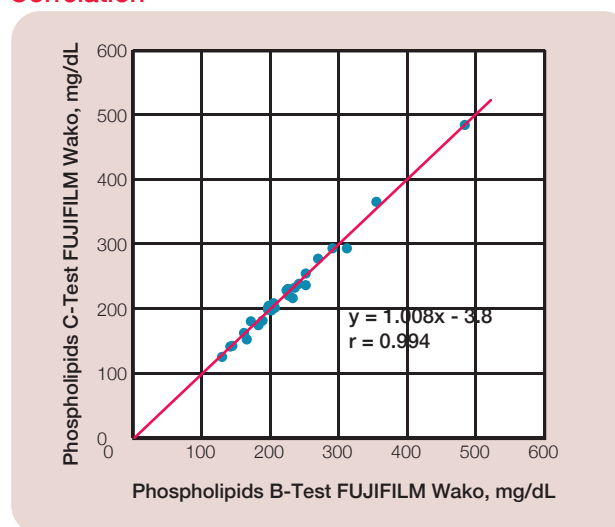


Precision

Within-run precision

Run #	Sample #	Replicates	Mean (U/mL)	SD	CV (%)
Run 1	Serum A	10	163.2	0.63	0.39
Run 1	Serum B	10	191.9	0.74	0.39

Correlation



Instruments

Various automated analyzer applications are available.

Specimen collection and preparation

- Use serum as a specimen
- Hemolysis, ascorbic acid and bilirubin do not have significant influence on the assay
- Lecithin, lysolecithin and sphingomyelin of phospholipids are measured, but phosphatidyl ethanolamine in the sample is not measured.

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