

ARG82860 Phosphatidylcholine Assay Kit (Fluorometric)

Package: 96 wells

Store at: 4°C, -20°C or -80°C

Summary

Product Description	ARG82860 Phosphatidylcholine Assay Kit (Fluorometric) can be used to measure Phosphatidylcholine levels in plasma or serum, tissue homogenates, or cell culture supernatants.
Tested Reactivity	Other
Tested Application	FuncSt
Target Name	Phosphatidylcholine
Conjugation Note	λ ex/em = 530-570 / 590-600 nm (fluorometric)
Sensitivity	0.5 mg/dL
Sample Type	Plasma or serum, tissue homogenates, or cell culture supernatants.
Standard Range	0.156 - 10 mg/dL
Sample Volume	10 μ l

Application Instructions

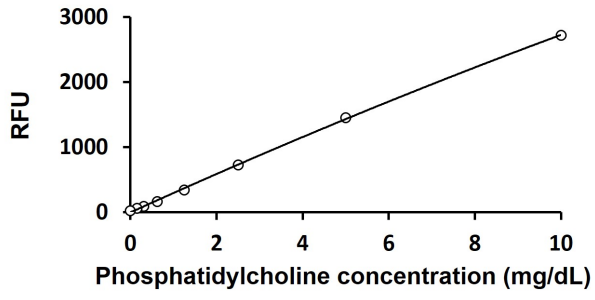
Assay Time	~60 -70 minutes
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Properties

Form	96 well
Storage instruction	Store components at 4°C, -20°C or -80°C. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Background	Phosphatidylcholines (PC) are a class of phospholipids that incorporate choline as a headgroup. They are a major component of biological membranes and can be easily obtained from a variety of readily available sources, such as egg yolk or soybeans, from which they are mechanically or chemically extracted using hexane. They are also a member of the lecithin group of yellow-brownish fatty substances occurring in animal and plant tissues. Dipalmitoyl phosphatidylcholine (a.k.a. lecithin) is a major component of pulmonary surfactant and is often used in the L/S ratio to calculate fetal lung maturity. While phosphatidylcholines are found in all plant and animal cells, they are absent in the membranes of most bacteria, including Escherichia coli. Purified phosphatidylcholine is produced commercially. Phospholipase D catalyzes the hydrolysis of phosphatidylcholine to form phosphatidic acid (PA), releasing the soluble choline headgroup into the cytosol. [Wikipedia: Phosphatidylcholine]
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ARG82860 Phosphatidylcholine Assay Kit (Fluorometric) standard curve image

ARG82860 Phosphatidylcholine Assay Kit (Fluorometric) results of a typical standard.