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Technical Data Sheet

For research use only

Not intended or approved for
diagnostic or therapeutic use.

Membrane Lipid Strips™

Product Number: P-6002

Product Description:

Membrane Lipid Strips™ are 2 x 6 cm hydrophobic membranes that have been spotted with 15 different lipids at 100 pmol per spot. These membranes can be used to determine lipid-protein interactions, through a simple protein-lipid overlay experiment. This allows researchers a convenient way to determine if their protein of interest interacts with one or more of the bound lipids.

Storage:

Store at 2-8 °C. Product is moisture and light sensitive.

Format:

The membrane has a diagonal cut on its top left corner and is spotted with Xylene Cyanol FF (blue) in the bottom right blank corner to assist in orientation of the strip. Ponceau S staining (pink) was added to the lipid spots. See template below for location of lipids. All of the lipids are long chain (> diC16) highly pure synthetic analogs. For more information, on the lipids spotted on the membrane, please visit our website and search the catalog numbers provided in the figure below.

Membrane Template:

Glyceryl tripalmitate or Triglyceride (GT)	<input type="radio"/>	<input type="radio"/>	Phosphatidylinositol (PI cat # P-0016)
Diacylglycerol (DAG cat # L-0016)	<input type="radio"/>	<input type="radio"/>	PtdIns(4)P (cat # P-4016)
Phosphatidic Acid (PA cat # L-4116)	<input type="radio"/>	<input type="radio"/>	PtdIns(4,5)P ₂ (cat # P-4516)
Phosphatidylserine (PS cat # L-3116)	<input type="radio"/>	<input type="radio"/>	PtdIns(3,4,5)P ₃ (cat # P-3916)
Phosphatidylethanolamine (PE cat # L-2116)	<input type="radio"/>	<input type="radio"/>	Cholesterol (cat # L-6012)
Phosphatidylcholine (PC cat # L-1116)	<input type="radio"/>	<input type="radio"/>	Sphingomyelin (SM)
Phosphatidylglycerol (PG cat # L-5116)	<input type="radio"/>	<input type="radio"/>	3-sulfogalactosylceramide or Sulfatide
Cardiolipin (CL cat # L-C160)	<input type="radio"/>	<input checked="" type="radio"/>	Blue Blank

*Final concentration of 0.1% (v/v) Ponceau S was added for accuracy during spotting.

Suggested Usage:

Visit our website www.echelon-inc.com. At the bottom of the each product's webpage is our general Protocol "Protocol_Strip_Array" for use with product numbers: P-6001, P-6100, P-6002, P-6003, S-6000, and S-6001. Also please refer to our FAQ "Frequently Asked Questions" document.

References:

1. Dowler, S., Currie, R.A., Downes, P.C., and Alessi, D.R. DAPP1: a dual adaptor for phosphotyrosine and 3-phosphoinositides *Biochemical Society J.* 342, 7-12 (1999).
2. Dowler, S., Kular, G., and Alessi, R.D., Protein lipid overlay assay, *Sci STKE*, 2002, L6. (2002).
3. Park D, Tosello-Tramont AC, Elliott MR, Lu M, Haney LB, Ma Z, Klibanov AL, Mandell JW, Ravichandran KS. BAI1 is an engulfment receptor for apoptotic cells upstream of the ELMO/Dock180/Rac module. *Nature*. 2007 Nov 15.
4. Palomares-Jerez MF, Nemesio H, Franquelim HG, Castanho MA, Villalain J. N-Terminal AH2 segment of protein NS4B from hepatitis C virus. Binding to and interaction with model biomembranes. *Biochem Biophys*. 2013 April 29.

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