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Product Name: PIP Array<sup>™</sup>

Product Number: P-6100

**Technical Data Sheet** 

For research use only

Not intended or approved for diagnostic or therapeutic use

**General Description:** PIP Array<sup>TM</sup> are  $4 \times 5$  cm hydrophobic membranes that have been

spotted with a concentration gradient of all eight phosphoinositides. 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 and the degree of

binding.

**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 Ponceau S\*

staining to assist in orientation of the strip. See template below for

location of lipids.

**Membrane Template:** 

A. B. C. D. E. F. G. 000000 PtIns 000000 PtdIns(3)P 0000000 PtdIns(4)P 0000000 PtdIns(5)P 000000 PtdIns(3,4)P<sub>2</sub> 000000 PtdIns(3,5)P<sub>2</sub> 0000000  $PtdIns(4,5)P_2$ 000000 PtdIns(3,4,5)P<sub>3</sub>

A. 100 pmol/spot

B. 50 pmol/spot

C. 25 pmol/spot

D. 12.5 pmol/spot

E. 6.25 pmol/spot

F 2.12 1/

F. 3.13 pmol/spot

G. 1.56 pmol/spot

**Suggested Usage:** See support protocol "basic Protocol for PIP strips<sup>TM</sup>, PIP Array<sup>TM</sup>,

PIP Microstrips<sup>TM</sup>, and SphingoStrips<sup>TM</sup>, on our website

www.echelon-inc.com

**References:** 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). Dowler, S., Kular, G., and Alessi, R.D., Protein lipid overlay assay, Sci STKE, 2002, L6.

(2002).

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



