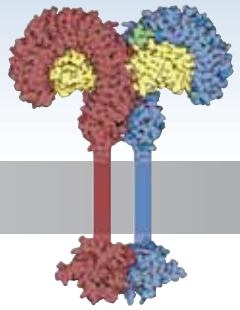
BRINGING INNATE IMMUNITY TO LIFE



AdipoGen®

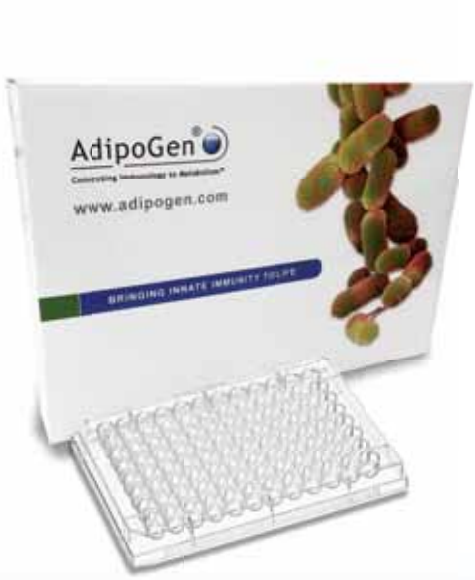
&

innaxon

TLR4 Agonist Arrays

From the Specialist & Expert Manufacturer of LPS

- Facilitate the determination of the optimal cell density, time point of analysis and multiplexing of readouts (e.g. cytokine(s) ELISA) of TLR4 specific cellular activation in a **highly reproducible and safe procedure.**
- Useful for establishing a **dose response curve** specific for the chosen cell type and serum concentration and for testing of TLR4 inhibitors or sensitizers.
- **Homogenous assay platform for high through-put** for immunotoxicity in drug safety testing, using co-cultures of hepatocytes and kupffer cells (macrophages).
- Tool to identify the optimal dendritic cell maturation cocktail.
- **Convenient and time saving format.** Helps to avoid dilution errors, partial solubilisation or contamination with TLR4 agonists.



Innaxon® Plates

LPS *On-The-Plate*™ (Sterile) IAX-500-001-KI01	**12 x 8 Tests** 1 Plate
Lipid A *On-The-Plate*™ (Sterile) IAX-500-002-KI01	**12 x 8 Tests** 1 Plate
MPLA *On-The-Plate*™ (Sterile) IAX-500-003-KI01	**12 x 8 Tests** 1 Plate

AdipoGen® Plates

MPLA (synthetic) 96-well Plate (Sterile) AG-44T-0001-KI01	**12 x 8 Tests** 1 Plate
Kdo2-Lipid A 96-well Plate (Sterile) AG-44T-0002-KI01	**12 x 8 Tests** 1 Plate

See Backcover for more Product Specifications!

Visit our website www.adipogen.com for a product datasheet and more unique reagents!

www.adipogen.com

PRODUCT DESCRIPTION

AdipoGen® & Innaxon® **TLR4 Agonist Array plates** are based on a high quality, sterile flat-bottomed clear polystyrene 96-well cell culture plate pre-coated with **TLR*pure*™** LPS, Lipid A, MPLA (biosynthetic), MPLA (synthetic) or KDO2-Lipid A.

The plates are coated in a uniform, stabilized and active layer of predefined quantities of **TLR*pure*™** LPS, Lipid A, MPLA (biosynthetic), MPLA (synthetic) or KDO2-Lipid A and they are set up as 12 test columns with identical agonist concentrations in 7 rows (A-G):

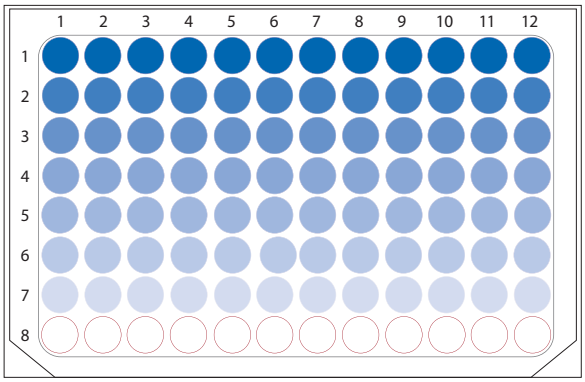


Plate Layout	TLR4 Agonist
Row	Concentration: ng/well
A	1,000
B	100
C	10
D	1
E	0.1
F	0.01
G	0.001
H	0

Row Concentrations:

1µg (A), 100ng (B), 10ng (C), 1ng (D), 100pg (E), 10pg (F), 1pg (G) per well and one negative control row (H).

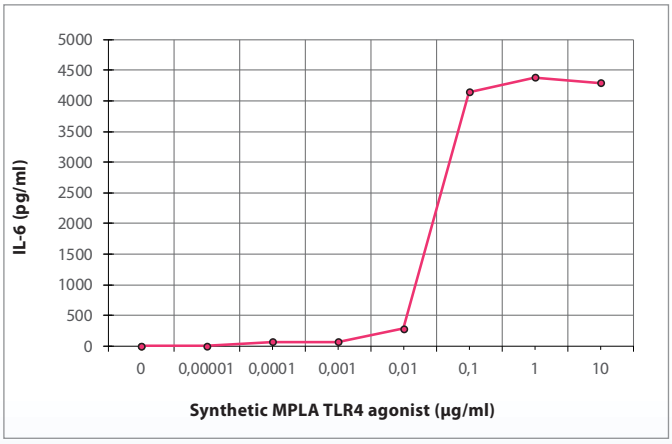
GENERAL ARRAY PROCEDURE

Add primary cells or cell lines expressing TLR4 to the **TLR4 Agonist Array plates** wells containing the coated TLR4-selective **TLR*pure*™** TLR4 Agonist. Optimal cell density needs to be determined for the respective cell type and readout, recommended starting concentration is 50,000 macrophages per well.

Recommended cell culture volume to be added to the **TLR4 Agonist Array plates** is 100µl (200µl) per 96-well, corresponding to a start concentration of 10µg/ml (5µg/ml) per well followed by 10-fold dilutions to 10pg/ml (5pg/ml).

Example Dose Response Data for synthetic MPLA:

Wild-type (WT) TLR4 expressing macrophages (50,000 cells per well) were incubated with synthetic MPLA as TLR4 agonist (10µg/ml to 10pg/ml). Cell culture supernatants were analyzed by ELISA for IL-6 after 24h. Optimal concentrations required for activation depend upon cell species (murine, human, others), cell culture conditions (FCS concentration), sampling time and cytokine.



Visit www.adipogen.com for a broad range of TLR*pure*™ TLR4 Agonists provided as *Ready-to-Use* aqueous sterile solutions!

AdipoGen®
www.adipogen.com

For local distributors please visit our website.

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