10% SERUM KdO₂-LIPID A TREATMENT

LIPID MAPS Protocol PP0000001004 Version 5, 07-17-2006

- 1. See Figure 1 for an overview of the time course of the 10% Serum KdO₂-lipid A treatment.
- 2. Maintain sterile technique throughout the KdO₂-lipid A treatment procedure until harvesting.
- 3. Plate 2 x 10⁶ cells per 60 mm plate in 5 mL of RAW 264.7 Growth Medium 1 (PS0000000800) as recommended on the LIPID MAPS Thawing and Passage Procedure (PP000000101). KdO₂-lipid A treated cells will be assayed at 0.5, 1, 2, 4, 8, 12 and 24 hours following addition of KdO₂-lipid A. Control cells will be assayed at time 0 (no additions) and at 0.5, 1, 2, 4, 8, 12 and 24 hours following addition of DPBS (15 conditions in triplicate = 45 plates total). Assign a barcode to each plate and enter into LIMS.
- 4. Incubate 24 hours at 37°C.
- 5. Spray the Eppendorf containing the freshly sonicated KdO₂-lipid A 1000x (100 μg/mL) working solution (PS0000001401) with 70% ethanol and let air dry before using.
- 6. Add 5 μL of the KdO₂-lipid A 1000x working solution to the treatment plates for a final concentration of 100ng/ml and 5 μL of DPBS to control plates.
- 7. Incubate for 0, .5, 1, 2, 4, 8, 12 and 24 hours at 37°C.
- 8. Immediately after removing each plate from 37°C and before harvesting the cells, take an aliquot (0.5 mL) of medium for the TNF α assay, place in a labeled Eppendorf tube and set aside. After harvesting the cells, spin the TNF α aliquots at 500 g for 3 min, collect an aliquot of supernatant (\sim 0.3-0.4 ml) and place in a new labeled Eppendorf tube. Assign a barcode, enter into LIMS and freeze the aliquots at -20°C

For the TNF α assay;

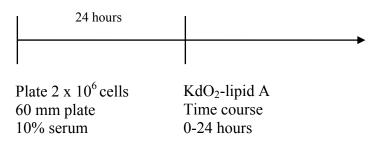
The TNF α aliquots from the KdO₂-lipid A treated cells must be diluted in medium at least 1:80 before assaying. ElisaTech will dilute the samples, if requested. Do not dilute aliquots from cells that were not treated with KdO₂-lipid A. Send frozen labeled aliquots to ElisaTech, 12635 E. Montview Blvd., Suite 215, Aurora, CO 80010. For assaying in house, use the Quantikine mouse TNF α /TNFSF1A EIA kit (R&D Systems Cat. #MTA00).

- 9. After collecting the aliquot for the TNFα assay, place the plate on ice, aspirate the medium, and gently wash the plate 2 x with 3 ml of 4°C DPBS.
- 10. Add another 3 mL of 4°C DPBS and scrape the cells with a scraper (see equipment list).
- 11. Pipet the cell suspension into an appropriate tube for either direct lipid extraction or centrifugation. Assign a barcode and enter into LIMS.
- 12. For collecting and assaying DNA aliquots, refer to LIPID MAPS DNA Assay (PP0000002700).

13. Cells can now be extracted directly or spun down for extraction of cell pellets. To centrifuge cells, spin the cell suspension at 500 g for 3 min at 4°C.

Figure 1

10% serum protocol



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