

Oxazolone-Induced Delayed Type Hypersensitivity (DTH) Model

Our Delayed Type Hypersensitivity (DTH) model evaluates the cell-mediated immune response to repeated exposure of skin to oxazolone. This results in a DTH reaction involving CD4+, CD8+ T cells and macrophages, resulting in local skin inflammation characterized by an increased thickness of the skin. An initial sensitization is followed by a challenge, which sets off a release of cytokines initiating a robust inflammatory response. Below are the assessment types and study data.

Experimental Overview

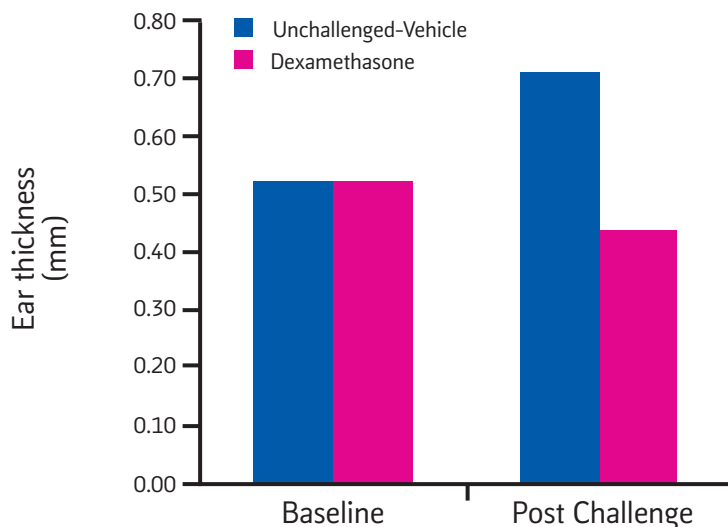
Animal Strain: Mouse (Balb/c)
 Study Duration: 8-10 Days
 Number/Group: Variable (Dependent on Objectives)
 Sensitizing Agent: Oxazolone
 Positive Control: Dexamethasone

Standard Assessment

Ear thickness

Add-on Assessments

Circulating or tissue level Biomarker analysis (protein or mRNA)
 Cell Populations in Spleen/Lymph Node by FACS
 Histology/IHC
 PK blood collections



Ear thickness of subjects treated with vehicle or Dexamethasone in the oxazolone-induced DTH model

Our Clients Say ...

"The performance of your team far exceeded our expectations. The study was performed well and we appreciate all your input into the study design. Your responsiveness and feedback during the study and following in the data interpretation was extremely helpful to guide our next steps. That's something we don't find with every CRO."

S.G., Toxicologist, Biotech Company

"Of all the CROs that I have used over the years... MLM Medical Labs been one of the very best in terms of scientific knowledge, data quality, timelines, flexibility and personal contacts."

O.B., Director of Therapeutics, Pharmaceutical Company

"Throughout our relationship, you have been attentive to our needs and have completed exploratory pilot studies and three drug studies with professionalism and an understanding of tight biotech timelines that are unmatched by other CROs."

D.Z., Director of Therapeutics, Biotech Company

About MLM Medical Labs

MLM Medical Labs is a leading specialty and central laboratory with comprehensive research services and diagnostic capabilities in Europe and the United States. Offering a range of standard and fully customizable analytical services across a variety of therapeutic areas, we add value at every stage of the drug development process from non-clinical/preclinical through phase IV clinical trials that serve to augment and accelerate research programs to their next stages and milestones. Each disease area is supplemented extensively by different models and batteries of *in vitro* and *ex vivo* analyses, offering answers to your therapeutics' effect on different parameters. With our strong reputation for scientific expertise, passionate approach to customer care, and adherence to quality data, we empower clients ranging from emerging biotech to Top Ten Global Pharma companies to reach confident clinical decisions that ultimately serve to improve patient lives.

If you'd like to discuss a particular study or speak with a scientist, please reach out to us!

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