

Keratoconjunctivitis Sicca Model



Type of Model

Induction of keratoconjunctivitis sicca



Test System

Rodents, Rabbits, Canines



Time

3-4 weeks to establish model
Up to 2-3 weeks of testing

Study Purpose

Evaluate efficacy and safety of pharmaceuticals designed to treat Keratoconjunctivitis Sicca (KCS) or dry eye syndrome in preclinical models.

Deliverables

- ✓ Tear production evaluation: Schirmer tear tests, Fluorescein tear breakup tests (TBUT), and Fluorescein staining
- ✓ Clinical Ophthalmic Exams (slit lamp biomicroscopy and ophthalmoscopy) using a modified McDonald-Shadduck scoring system
- ✓ Comparison of test article to currently approved therapeutics
- ✓ Histopathological analysis

Model Description

- ✓ Induction using atropine and low humidity conditions
- ✓ Clinical ophthalmic exams, TBUT, and Schirmer tear test performed at customized time points to confirm decrease in tear production

Benefits

- ✓ Validated efficacy model as presented at ARVO
- ✓ Trained scientists for consistent and accurate scoring
- ✓ Advanced ocular equipment and expertise in-house

Fluorescein Tear Breakup Time Results

- ✓ Successful induction of KCS by a reduction in tear break-up time for both the treated and untreated groups (Day 1 to Day 20).
- ✓ Increase in tear film stability observed for treated animals compared to non-treated animals

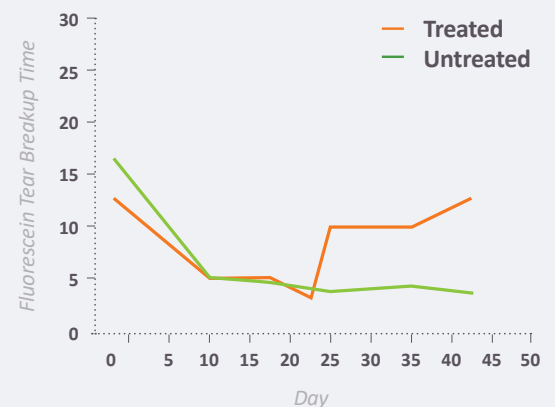


Figure 1: Average fluorescein tear breakup time in seconds



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