

Rabbits are used to rear *Ixodes scapularis* larvae and nymphs. *Ixodes scapularis* ticks produce sialostatin L, a natural anti-inflammatory agent present in tick saliva. Because this natural product is present, no additional drugs are administered to the rabbits.

Previous internal study conducted showed no significant benefit of analgesics administered to rabbits for the reduction of inflammation caused by tick feeding.

The study that utilized the cattle described in this document is investigating the level of pain caused by different castration methods in feedlot steers. Providing analgesia would likely mask any differences that might be present between the different treatment groups.

American black bears > 1 year of age: bears were sedated and an analgesic was administered 30 minutes before a vestigial tooth was extracted for age determination. For bears that had been captured in previous years, tooth extraction was not needed. Recapturing bears to administer additional doses of an analgesic was not practical and would have been more detrimental than the mild pain from a small tooth extraction.