

# Anticonvulsant Screening Program

## Test 23 Results - Sciatic Ligation Model In Rats

ASP ID: 91063      XX      Screen ID: 1

Solvent Code: MC      Solvent Prep: M&P,SB      Route Code: IP

Date Started: 14-Jun-2011      Date Completed: 14-Jun-2011

Reference: SL4:20

### Analysis

| Dose<br>(mg/kg) | Time<br>(hrs) | Mean values +/- S.E.M |     |       |                                                 |
|-----------------|---------------|-----------------------|-----|-------|-------------------------------------------------|
|                 |               | Threshold             | +/- | S.E.M | % Pre-Drug +/- S.E.M                            |
| 250.0           | 0.0           | 3.15                  | +/- | 0.91  | 100 +/- 29 <input type="checkbox"/>             |
| 250.0           | 0.5           | 11.54                 | +/- | 6.95  | 189 +/- 37 <input type="checkbox"/>             |
| 250.0           | 1.0           | 17.84                 | +/- | 6.58  | 483 +/- 122 <input checked="" type="checkbox"/> |
| 250.0           | 2.0           | 15.33                 | +/- | 6.5   | 375 +/- 86 <input type="checkbox"/>             |
| 250.0           | 4.0           | 15.55                 | +/- | 6.72  | 374 +/- 112 <input type="checkbox"/>            |
| 250.0           | 6.0           | 3.96                  | +/- | 1.3   | 116 +/- 27 <input type="checkbox"/>             |

\* % threshold of ligated leg prior to drug administration.

Note: Box checked if data is significantly different from control.

### Results of Analysis

| Dose<br>(mg/kg) | Time of Peak Effect<br>(hrs) | * % Pre-Drug |     |     |                                     |
|-----------------|------------------------------|--------------|-----|-----|-------------------------------------|
|                 |                              | Threshold    | +/- | SEM |                                     |
| 250.0           | 1.0                          | 483          | +/- | 122 | <input checked="" type="checkbox"/> |

Note: Box checked if data is significantly different from pre-drug.

### Response per Animal

| Dose<br>(mg/kg) | Animal # | Threshold for Foot Withdrawal (grams) |       |       |       |       |      |       |  |  |  |
|-----------------|----------|---------------------------------------|-------|-------|-------|-------|------|-------|--|--|--|
|                 |          | Pre-Drug                              | 1hr   | 2hr   | 4hr   | 6hr   | 24hr | 0.5hr |  |  |  |
| 250.0           | 1        | 1.61                                  | 2.87  | 2.87  | 1.61  | 1.17  |      | 2.87  |  |  |  |
| 250.0           | 2        | 2.87                                  | 4.34  | 12.93 | 6.73  | 6.73  |      | 4.34  |  |  |  |
| 250.0           | 3        | 1.17                                  | 9.29  | 9.29  | 9.29  | 1.61  |      | 4.34  |  |  |  |
| 250.0           | 4        | 9.29                                  | 11.96 | 9.29  | 11.96 | 2.87  |      | 9.29  |  |  |  |
| 250.0           | 5        | 2.87                                  | 59.96 | 11.96 | 59.96 | 11.96 |      | 59.96 |  |  |  |
| 250.0           | 6        | 2.87                                  | 4.34  | 59.96 | 22.8  | 2.87  |      | 4.34  |  |  |  |

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|       |   |      |      |       |      |      |  |      |  |  |  |
|-------|---|------|------|-------|------|------|--|------|--|--|--|
| 250.0 | 7 | 2.87 | 2.87 | 11.96 | 6.73 | 1.61 |  | 2.87 |  |  |  |
| 250.0 | 8 | 1.61 | 4.34 | 4.34  | 5.29 | 2.87 |  | 4.34 |  |  |  |

**Comment for Response:** Rat 05 at 0.5, 1,4,6hrs and rat 06 at 2 hrs, are significant outliers as defined by Grubb's test ( $p < 0.05$ ) on Graphpad website (<http://www.graphpad.com/quickcalcs/grubbs1.cfm>)

**Comments:**