**Experiment Number:** S0569
**Route:** Gavage, IV
**Species/Strain:** Rat/F344/N

**Toxicokinetics Data Summary**
**Test Compound:** Oxymetholone
**CAS Number:** 434-07-1

**Date Report Requested:** 01/09/2017
**Time Report Requested:** 11:25:47
**Lab:** NIEHS_CEDRA Corporation

### Male

#### Treatment Groups (mg/kg)

| | 30 [a, 7] | 120 [b, 4] | 120 [a, 2] | 120 [a, 4] | 120 [a, 6] | 20 IV [c, 3] | 20 IV [a, 3] | 20 IV [a, 1] |
|---|---|---|---|---|---|---|---|---|
| **Plasma** | | | | | | | | |
| $C_{max}$ (mg/L) | 0.820 | | 1.13 | 1.61 | 1.33 | | | |
| $T_{max}$ (hour) | 2.0 | | 2.0 | 2.0 | 2.0 | | | |
| $t_{1/2}$ (hour) | 5.56 | 3.43 | 3.55 | 3.83 | 3.26 | 1.33 | 2.27 | 0.61 |
| $Cl$ (L/hr*kg) | | | | | | 2.60 | | |
| $Cl_{1(F)}$ (L/hr*kg) | | 15.1 | | | | | | |
| $V_1$ (L/kg) | | | | | | 4.98 | | |
| $V_{1(F)}$ (L/kg) | | 74.7 | | | | | | |
| $AUC_{inf}$ (mg*hr/L) | 6.07 | 7.96 | 7.34 | 9.10 | 7.51 | 7.68 | 8.12 | 6.92 |

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**Male**

| Treatment Groups (mg/kg) |
| --- |
| 20 IV [a, 5] |
| Plasma |

| | |
| --- | --- |
| $C_{max}$ (mg/L) | |
| $T_{max}$ (hour) | |
| $t_{1/2}$ (hour) | 1.07 |
| $Cl$ (L/hr*kg) | |
| $Cl_{1(F)}$ (L/hr*kg) | |
| $V_1$ (L/kg) | |
| $V_{1(F)}$ (L/kg) | |
| $AUC_{inf}$ (mg*hr/L) | 8.14 |

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LEGEND

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Data are displayed as mean values

MODELING METHOD & BEST FIT MODEL

[a] Quattro Pro (Version 5.0 for Windows, Borland International Inc ., Scotts Valley, CA) spreadsheet software; non-compartmental analysis

[b] Quattro Pro (Version 5.0 for Windows, Borland International Inc ., Scotts Valley, CA) spreadsheet software; Combination C, E, G, and H non-compartmental analysis--combining the time points of gavage 120 mg/kg male rat groups 2(C), 4(E), 6 (G) and 7(H) to get means used in the analysis. Timepoints ranged from 10-1440 minutes.

[c] Quattro Pro (Version 5.0 for Windows, Borland International Inc ., Scotts Valley, CA) spreadsheet software; Combination B, D, and F non-compartmental analysis--combining the time points of intravenous 20 mg/kg male rat groups 1(B), 3(D), and 5(F) to get means used in the analysis. Timepoints ranged from 5-250 minutes.

ANALYTE

Oxymetholone

GROUP INFORMATION

[1] Experiment B: Plasma Concentration at 2 hours equals equals 0.620 mg/L. Each timepoint n of 1.

[2] Experiment C: Plasma Concentration at 2 hours equals equals 1.13 mg/L. Each timepoint n of 1.

[3] Experiment D: Plasma Concentration at 2 hours equals equals 0.914 mg/L. Each timepoint n of 1.

[4] Experiment E: Plasma Concentration at 2 hours equals equals 1.61 mg/L. Each timepoint n of 1.

[5] Experiment F: Plasma Concentration at 2 hours equals equals 0.846 mg/L. Each timepoint n of 1.

[6] Experiment G: Plasma Concentration at 2 hours equals equals 1.33 mg/L. Each timepoint 10-360 minutes n of 1, timepoints 480-1440 minutes, n of 2-3.

[7] Experiment I: Plasma Concentration at 2 hours equals equals 0.820 mg/L. Each time point n of 3.

TK PARAMETERS

$C_{max}$ = Observed or Predicted Maximum plasma (or tissue) concentration

$T_{max}$ = Time at which $C_{max}$ predicted or observed occurs

$t_{1/2}$ = Lambda$_z$ half-life, $t_{1/2}$, the terminal elimination half-life based on non-compartmental analysis

Cl = Clearance, includes total clearance

$Cl_{1(F)}$ = Apparent clearance of the central compartment, also $Cl_{(F)}$ for gavage groups in non-compartmental model

$V_1$ = Volume of distribution of the central compartment, includes $V_d$ and $V_{volume}$ of distribution, $V_z$ apparent volume of distribution NCA, $V_{app}$ apparent volume of distribution for intravenous studies

$V_{1(F)}$ = Apparent volume of distribution for the central compartment includes $V_{d(F)}$, $V_{(F)}$ for oral groups, and $V_{c(F)}$

$AUC_{inf}$ = Area under the plasma concentration versus time curve, AUC, extrapolated to time equals infinity

## ** END OF REPORT **