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AR226_1489

Review of APME-Sponsored Kinetics

I. ADE – Reported 1Q/2003

II. Protein – Binding – 3 manuscripts 3Q/2003

III. Modeling –
Rat – derived compartment model
Human model considerations 3Q/2003

7/25/03
GL Kennedy

Project: Inhalation Kinetics – Rat

Purpose: To relate inhalation exposure to an APFO blood level (for comparison to oral data)

General Design: 3 exposure concentrations (1, 10, 25 mg/m^3)
3 weeks of exposure (6 hr/d x 5d/wk)
Both sexes
Sample immediately before and after exposure daily (used pilot study to determine timing of blood levels)

Date Available: August, 2003

Report Available: October, 2003

7/25/03
GL Kennedy

Project: Lactational Transport Kinetics – Rat

Purpose: To determine transfer of APFO to offspring from lactating dam (in a quantitative manner)

General Design: Oral doses of 3, 10, 30 mg/kg
GD 4 → LD 4, 7, 14, 21 (follow same rats)
Collecting maternal blood, milk and offspring blood
Analyze for PFOA

Data Available: October, 2003

Report Available: December, 2003

7/25/03
GL Kennedy

Project: Placental Transport Kinetics – Rat

Purpose: To determine transfer of APFO from mother to fetus (in a quantitative manner)

General Design: Oral doses of 3, 10, 30 mg/kg
GD 4→ 10; 4-15; 4-21
Collect maternal blood and conceptus/ fetal "blood"
(amniotic fluid, placenta in later gestation)
Analyze for PFOA

Data Available: October, 2003

Report Available: December, 2003

7/25/03
GL Kennedy

Project: Effect of Age of PFOA-Elimination – Rat

Purpose: To determine at what age differential excretion of APFO occurs in male and female rats

General Design: Single oral doses (10 mg/kg)
Dosed rats at 4 wk, 5 wk, 6 wk, 7 wk, 8 wks of age (separate groups)
Blood APFO determined 24 hrs post-dose

Data Available: September, 2003

Report Analysis: December, 2003

7/25/03
GL Kennedy