Experiment Number: S0545  
Route: Gavage, IV  
Species/Strain: Mouse/B6C3F1  

Toxicokinetics Data Summary  
Test Compound: Di-n-butyl phthalate  
CAS Number: 84-74-2  

Date Report Requested: 12/27/2016  
Time Report Requested: 11:23:05  
Lab: Research Triangle Institute

<table>
<thead>
<tr>
<th>Male</th>
<th>Treatment Groups (mg/kg)</th>
<th>83 a</th>
<th>166 a</th>
<th>332 a</th>
<th>30 IV a</th>
<th>30 IV b</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>C&lt;sub&gt;max&lt;/sub&gt; (ug/mL)</td>
<td>76.7</td>
<td>133</td>
<td>208</td>
<td>54.2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>T&lt;sub&gt;max&lt;/sub&gt; (minute)</td>
<td>15</td>
<td>30</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Alpha (minute⁻¹)</td>
<td></td>
<td></td>
<td></td>
<td>0.0668  ± 0.016</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Beta (minute⁻¹)</td>
<td></td>
<td></td>
<td></td>
<td>0.000648 ± 0.056</td>
<td></td>
</tr>
<tr>
<td></td>
<td>t&lt;sub&gt;1/2(Beta)&lt;/sub&gt; (minute)</td>
<td>101</td>
<td>52.4</td>
<td>86.2</td>
<td>78.1</td>
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<tr>
<td></td>
<td>k&lt;sub&gt;01&lt;/sub&gt; (minute⁻¹)</td>
<td></td>
<td></td>
<td></td>
<td>0.0750 ± 0.020</td>
<td></td>
</tr>
<tr>
<td></td>
<td>k&lt;sub&gt;10&lt;/sub&gt; (minute⁻¹)</td>
<td></td>
<td></td>
<td></td>
<td>0.0566 ± 0.69</td>
<td></td>
</tr>
<tr>
<td></td>
<td>k&lt;sub&gt;12&lt;/sub&gt; (minute⁻¹)</td>
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<td></td>
<td></td>
<td>0.0100 ± 0.69</td>
<td></td>
</tr>
<tr>
<td></td>
<td>k&lt;sub&gt;21&lt;/sub&gt; (minute⁻¹)</td>
<td></td>
<td></td>
<td></td>
<td>7.64E-4 ± 0.057</td>
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<tr>
<td></td>
<td>Cl (mL·min/kg)</td>
<td>27.0</td>
<td>20.5</td>
<td>16.6</td>
<td>24.2</td>
<td>0.478 ± 0.11</td>
</tr>
<tr>
<td></td>
<td>V&lt;sub&gt;1&lt;/sub&gt; (L/kg)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>MRT (minute)</td>
<td>32.9</td>
<td>44.6</td>
<td>70.1</td>
<td>24.9</td>
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<tr>
<td></td>
<td>AUC&lt;sub&gt;inf&lt;/sub&gt; (ug/mL·min)</td>
<td>2442</td>
<td>6492</td>
<td>15978</td>
<td>992</td>
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</tr>
<tr>
<td></td>
<td>F (fraction)</td>
<td>0.90</td>
<td>1.18</td>
<td>1.45</td>
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</tr>
</tbody>
</table>
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LEGEND

Data are displayed as mean ± SEM

MODELING METHOD & BEST FIT MODEL

a Models 200 and 201, PCNONLIN software, SCI Software, Lexington, KY; Noncompartmental analysis.
b Compartmental modeling techniques with established models or models written to simultaneously solve IV and oral data sets (PCNONLIN); 2-compartmental model using equations derived from simultaneous fitting the IV and low oral dose data (Studies T and U).

ANALYTE
Mono-n-butyl phthalate

TK PARAMETERS

$C_{\text{max}}$ = Observed or Predicted Maximum plasma (or tissue) concentration
$T_{\text{max}}$ = Time at which $C_{\text{max}}$ predicted or observed occurs
Alpha = Hybrid rate constant of the alpha phase
Beta = Hybrid rate constant of the beta phase
$t_{\frac{1}{2}}(\beta)$ = Half-life for the beta phase
$k_{01}$ = Absorption rate constant, $k_a$
$k_{10}$ = Elimination rate constant from the central compartment also $k_e$ or $k_{\text{elim}}$
$k_{12}$ = Distribution rate constant from first to second compartment etc.
$k_{21}$ = Distribution rate constant from second to first compartment etc.
Cl = Clearance, includes total clearance
$V_1$ = Volume of distribution of the central compartment, includes $V_d$ and $V_{\text{volume}}$ of distribution, $V_2$ apparent volume of distribution NCA, $V_{\text{app}}$ apparent volume of distribution for intravenous studies
MRT = Mean residence time
AUC$_{\text{inf}}$ = Area under the plasma concentration versus time curve, AUC, extrapolated to time equals infinity
F = Bioavailability, absolute bioavailability

** END OF REPORT**