

**Distribution of Radioactivity 72 Hours Following Uncovered Dermal Administration of  
50 mg/kg [<sup>14</sup>C]EGEHE in Male Harlan Sprague Dawley Rats – Group 9**

## Disposition Summary [Dose Recovered (%)]

Sample	9001	9002	9003	9004	Mean	SD
<b>Total Unabsorbed Dose</b>	<b>19.7</b>	<b>23.8</b>	<b>22.0</b>	<b>19.9</b>	<b>21.3</b>	<b>1.94</b>
Dose Site Swipes	0.03	0.06	0.05	0.02	0.04	0.02
VOC <sup>a</sup>	19.0	23.3	21.4	19.7	20.8	1.95
Total Dose Site Skin	0.67	0.41	0.54	0.25	0.46	0.18
<b>Total Absorbed Dose</b>	<b>22.2</b>	<b>25.9</b>	<b>25.6</b>	<b>25.9</b>	<b>24.9</b>	<b>1.83</b>
Urine	16.9	20.5	19.5	20.1	19.3	1.59
Urine	10.6	16.0	15.7	16.3	14.7	2.71
Cage Rinse	6.32	4.42	3.85	3.72	4.58	1.20
Feces	2.86	3.43	4.42	4.23	3.74	0.72
GI Tract Contents	0.25	0.18	0.19	0.06	0.17	0.08
Tissues	1.11	0.97	0.79	0.77	0.91	0.16
CO <sub>2</sub>	1.01	0.88	0.72	0.78	0.85	0.13
<b>Total Recovered</b>	<b>41.8</b>	<b>49.8</b>	<b>47.6</b>	<b>45.8</b>	<b>46.3</b>	<b>3.35</b>

<sup>a</sup>Volatile organic compound (VOC) included as unabsorbed dose due to evaporation from dose site

## Dose Recovered in Excreta (%)

Sample	Collection Interval (h)	9001	9002	9003	9004	Mean <sup>a</sup>	SD
Urine	4 to 8	4.02	6.75	8.15	7.27	6.55	1.78
Urine	12 to 24	4.69	7.45	5.25	7.49	6.22	1.46
Urine	24 to 48	1.66	1.59	1.78	1.35	1.60	0.18
Urine <sup>b</sup>	48 to 72	0.26	0.27	0.47	0.24	0.31	0.11
<b>Urine Subtotal</b>	–	<b>10.6</b>	<b>16.1</b>	<b>15.7</b>	<b>16.4</b>	<b>14.7</b>	<b>2.71</b>
Cage Rinse	4 to 8	2.94	3.01	2.09	2.14	2.54	0.50
Cage Rinse	12 to 24	2.68	1.08	1.24	0.74	1.44	0.85
Cage Rinse	24 to 48	0.65	0.30	0.46	0.75	0.54	0.20
Cage Rinse	48 to 72	0.05	0.03	0.06	0.09	0.06	0.02
<b>Cage Rinse Subtotal</b>	–	<b>6.32</b>	<b>4.42</b>	<b>3.85</b>	<b>3.72</b>	<b>4.58</b>	<b>1.20</b>
Feces	0 to 24	2.26	2.14	2.92	3.34	2.66	0.57
Feces	24 to 48	0.39	1.13	1.25	0.77	0.89	0.39
Feces	48 to 72	0.22	0.16	0.25	0.12	0.19	0.06
<b>Feces Subtotal</b>	–	<b>2.86</b>	<b>3.43</b>	<b>4.42</b>	<b>4.23</b>	<b>3.74</b>	<b>1.28</b>
CO <sub>2</sub>	0 to 4	0.41	0.16	0.15	0.22	0.24	0.12
CO <sub>2</sub>	4 to 8	0.16	0.26	0.21	0.18	0.20	0.04
CO <sub>2</sub>	8 to 12	0.11	0.16	0.11	0.14	0.13	0.03
CO <sub>2</sub>	12 to 24	0.13	0.12	0.10	0.08	0.11	0.03
CO <sub>2</sub>	24 to 48	0.15	0.13	0.11	0.13	0.13	0.01
CO <sub>2</sub>	48 to 72	0.05	0.05	0.03	0.03	0.04	0.01
<b>CO<sub>2</sub> Subtotal</b>	–	<b>1.01</b>	<b>0.88</b>	<b>0.72</b>	<b>0.78</b>	<b>0.85</b>	<b>0.07</b>
VOC	0 to 4	3.16	3.45	3.58	3.11	3.33	0.23
VOC	4 to 8	3.13	4.15	4.90	3.25	3.86	0.83
VOC	8 to 12	2.14	2.32	3.31	2.45	2.55	0.52
VOC	12 to 24	3.60	4.02	4.14	3.47	3.81	0.32
VOC	24 to 48	4.17	5.28	3.08	3.95	4.12	0.90
VOC	48 to 72	2.77	4.13	2.36	3.45	3.18	0.78
<b>VOC Subtotal</b>	–	<b>18.97</b>	<b>23.34</b>	<b>21.37</b>	<b>19.67</b>	<b>20.84</b>	<b>0.57</b>

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Distribution in Tissues (72 Hours)

Tissue <sup>c</sup>	ng-eq/g Mean	ng-eq/g SD	TBR Mean <sup>d</sup>	TBR SD	Percent Recovery Mean	Percent Recovery SD
Blood	2.88	0.31	–	–	0.07	0.01
Adipose	2.78	0.58	0.96	0.14	0.06	0.01
Muscle	2.70	0.75	0.93	0.19	0.35	0.09
Skin	2.88	0.52	1.01	0.21	0.18	0.03
Brain	1.59	0.49	0.55	0.14	<0.01	<0.01
Heart	4.24	0.73	1.48	0.21	<0.01	<0.01
Kidneys	6.31	1.14	2.20	0.34	0.01	<0.01
Liver	11.75	2.05	4.09	0.59	0.13	0.02
Lung	6.23	0.96	2.17	0.30	0.01	<0.01
Spleen	5.92	1.43	2.05	0.39	<0.01	<0.01
Thyroid	11.58	4.82	4.00	1.45	<0.01	<0.01
Urinary Bladder	11.91	6.24	4.09	1.88	<0.01	<0.01
Pancreas	6.29	1.71	2.18	0.47	<0.01	<0.01
Testes/Ovaries	2.22	0.23	0.77	0.06	0.01	<0.01
Large Intestine	7.68	1.69	2.72	0.77	0.03	0.01
Small Intestine	7.68	1.69	2.72	0.77	0.03	0.01
Stomach	5.66	1.54	1.96	0.41	0.01	<0.01
<b>Total</b>	–	–	–	–	<b>0.91</b>	<b>0.16</b>

<sup>a</sup>All values expressed as mean ± standard deviation (SD) (N = 4). \$

<sup>b</sup>Final urine collection includes urine present in the urinary bladder at study termination.

<sup>c</sup>Tissue weights for the dispersed tissues were calculated using the following percentages of body weight: adipose \$ 7.0%, blood 7.4%, muscle 40.4%, and skin 19% (International Life Sciences Institute, 1994).

<sup>d</sup>TBR = Tissue to blood ratio. h = hours.