TD.130755

Irradiated Ivermectin Diet (2018, 12 ppm)

Description
TD.130755 is Teklad Global 18% Protein Rodent Diet (2018) with 12 ppm ivermectin added and irradiated. TD.130755 was designed for the eradication of fur mites and supplies approximately 1.3 – 1.6 mg ivermectin/kg mouse/day assuming a 25 g mouse.

Use
Ivermectin may be used as an effective treatment for fur mite infections in mice. Effective facility-wide (120,000 mice) eradication of fur mites has been described by feeding a 12 ppm ivermectin containing diet continuously for 8 weeks. Use of TD.130755 to administer ivermectin through diet ensures proper dosing, prevents missed treatments, and reduces labor costs compared to other dosing methods.

While ivermectin treatment has a wide safety margin for most mouse strains, models with impaired blood brain barrier function are more sensitive to ivermectin toxicity. Pretreatment of a subpopulation of unique mouse strains with ivermectin diet can assist in identifying those models may be less tolerant to ivermectin treatment.

Research Considerations
Caution is advised when interpreting data collected during mite infestation and ivermectin treatment. In addition to clinical symptoms, fur mite infestations may cause changes in behavior and immune function introducing research variability. ivermectin treatment has been reported to cause changes in animal phenotype.

Monitoring
The presence of DNA from nonviable mite material may remain within a facility after successful ivermectin treatment. Both molecular and visual inspections for mites are recommended to limit false-positives immediately following ivermectin treatment.

Use of TD.130755 and mite monitoring practices should be under the direction of a veterinarian.

Typical Ivermectin Levels

<table>
<thead>
<tr>
<th></th>
<th>Ivermectin ± SD, ppm n</th>
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</thead>
<tbody>
<tr>
<td>Irradiated</td>
<td>12.6 ± 0.9 4</td>
</tr>
<tr>
<td>Stored 9 months</td>
<td>9.9 1</td>
</tr>
</tbody>
</table>

Selected Nutrient information

<table>
<thead>
<tr>
<th></th>
<th>% by weight</th>
<th>% kcal from</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein</td>
<td>18.6</td>
<td>28</td>
</tr>
<tr>
<td>CHO</td>
<td>44.2</td>
<td>58</td>
</tr>
<tr>
<td>Fat</td>
<td>6.2</td>
<td>18</td>
</tr>
</tbody>
</table>

Kcal/g 3.1

Values are calculated from ingredient analysis or manufacturer data.

References

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