

# 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<sup>1,2</sup>. 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<sup>3</sup>. 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<sup>4</sup>. Pretreatment of a subpopulation of unique mouse strains with ivermectin diet can assist in identifying those models may be less tolerant to ivermectin treatment<sup>3</sup>.

### 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<sup>5</sup>. Ivermectin treatment has been reported to cause changes in animal phenotype<sup>6,7</sup>.

### 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<sup>2,8</sup>.

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

### References

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8. Weiss EE, Evans KD, Griffey SM. 2012. J Am Assoc Lab Anim Sci 51:574-8. PMID: 23312085.

### Speak with a Nutritionist

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Teklad Diets are designed & manufactured for research purposes only.

### Key Features

- + Ivermectin
- + Fur Mites
- + Global 2018 Rodent Diet

### Storage and Stability

TD.130755 should be stored below 70°F and 50% relative humidity. Diet processing and storage has minimal effects on ivermectin levels.

*Use this diet as directed by a veterinarian*

### Typical Ivermectin Levels

	Ivermectin ± SD, ppm	n
Irradiated	12.6 ± 0.9	4
Stored 9 months	9.9	1

### Selected Nutrient information<sup>1</sup>

	% by weight	% kcal from
Protein	18.6	28
CHO	44.2	58
Fat	6.2	18
Kcal/g	3.1	

<sup>1</sup> Values are calculated from ingredient analysis or manufacturer data

### Key Planning Information

- + Use within 6 months
- + Lead time:
- + · Shipped within 2 weeks

### Product Specific Information

- + Round Pellet
- + Nutritionally complete
- + Irradiated
- + Heat Sealed, 25 pound capsac

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