

Formula	g/Kg
Casein	230.0
DL-Methionine	3.4
Sucrose, fine ground	260.0
Corn Starch	64.7098
Maltodextrin	107.0
Hydrogenated Vegetable Oil	220.0
Soybean Oil	10.0
Cholesterol	2.0
Cellulose	50.0
Mineral Mix, AIN-93G-MX (94046)	46.0
Calcium Phosphate, dibasic	3.3
Niacin	0.042
Calcium Pantothenate	0.0224
Pyridoxine HCl	0.0098
Thiamin (81%)	0.0084
Riboflavin	0.0084
Folic Acid	0.0028
Biotin	0.0003
Vitamin B ₁₂ (0.1% in mannitol)	0.035
Vitamin E, DL-alpha tocopheryl acetate (500 IU/g)	0.1
Vitamin A Palmitate (500,000 IU/g)	0.0112
Vitamin D ₃ , cholecalciferol (500,000 IU/g)	0.0028
Vitamin K ₁ , phylloquinone	0.0011
Choline Bitartrate	3.3
TBHQ, antioxidant	0.046

Footnote

Modification of TD.120330 to increase the sucrose to 26% of the diet. Diet adds 0.2% cholesterol and contains approximately 45% kcal from fat, 23% fat by weight, and 50 IU/kg vitamin E.

Key Features

- + Purified Diet
- + ALIOS
- + Added Sucrose
- + Cholesterol

Selected Nutrient Information¹

	% by weight	% kcal from
Protein	20.4	17.6
CHO	43.0	37.2
Fat	23.2	45.2

Kcal/g 4.6

¹ Values are calculated from ingredient analysis or manufacturer data

Teklad Diets are designed & manufactured for research purposes only.

Key Planning Information

- + Products are made fresh to order
- + Store product at 4°C or lower
- + Use within 6 months (applicable to most diets)
- + Box labeled with product name, manufacturing date, and lot number
- + Replace diet at minimum once per week
More frequent replacement may be advised
- + Lead time:
 - 2 weeks non-irradiated
 - 4 weeks irradiated

Product Specific Information

- + 1/2" Pellet or Powder (free flowing)
- + Minimum order 3 Kg
- + Irradiation not advised
 - Contact a nutritionist for recommendations

Options (Fees Will Apply)

- + Rush order (pending availability)
- + Irradiation (see Product Specific Information)
- + Vacuum packaging (1 and 2 Kg)

Speak With A Nutritionist

- + (800) 483-5523
- + askanutritionist@envigo.com

**Contact Us**

Obtain Pricing · Check Order Status

- + teklad@envigo.com
- + (800) 483-5523

International Inquiry (Outside USA or Canada)

- + askanutritionist@envigo.com

Place Your Order (USA & Canada)

Please Choose One

- + www.envigo.com/teklad-orders
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- + (608) 277-2066 *facsimile*

April 6, 2018

Replacement of Primex Brand Hydrogenated Vegetable Shortening

As of April 11th, 2018 Primex brand hydrogenated vegetable oil (HVO) will no longer be included in diets manufactured by Envigo Teklad Diets. Diets made after April 11th replace Primex with an USP, food-grade HVO that has a similar texture and fatty acid profile (see table). Manufacturing tests revealed no appreciable differences in physical qualities of the finished diet. While diet numbers will not change, you may notice an updated diet title and ingredient description on the diet datasheet.

While we strive to minimize supplier changes, due to the upcoming FDA ban on trans fats in human foods, Primex is no longer in production. The replacement HVO is more expensive, as the market for trans fat-containing oils has shrunk. For diets containing HVO at the most typical inclusion rates of 100-300 g/kg this will result in an increase in price of ~\$3-8/kg diet.

Depending on your research goals and desire for relevance to human diets, you may wish to replace your Primex-containing diet with a HVO without trans fats such as Crisco. Crisco is a proprietary HVO with minimal trans fats (see table). We also have several popular obesity inducing diets with alternate fat sources like lard or milkfat that may be suitable for your research. Contact a nutritionist to discuss alternate options.

Comparison of the fatty acid profile of Primex, Envigo Teklad's Replacement HVO and Crisco.

Fatty Acids, %	Primex HVO ¹	Replacement HVO ²	Crisco ³
Trans fatty acids	23.9 - 36.1	26.4 - 32.8	0.6
Saturated fatty acids	25.3 - 27.1	24.2 - 24.5	25.8
Monounsaturated fatty acids	25.3 - 33.3	29 - 34.9	18.7
Polyunsaturated fatty acids	5.6 - 9.0	7.7 - 8.0	49.5
16:0 palmitic acid	14.0 - 17.4	11 - 12	16.9
18:0 stearic acid	9.1 - 11.5	11.8 - 12.5	9.6
18:1 n9T elaidic acid	22.2 - 34.7	24.5 - 30.6	0
18:1 n9C oleic acid	16.6 - 26.5	21.5 - 28.5	18.1
18:1 n7C vaccenic acid	2.2 - 2.4	2.2	1.2
18:1 other cis isomers	6.3 - 7.8	6.2 - 6.5	0
18:2 n6 linoleic acid	5.8 - 9.1	7.7 - 7.8	44.8
18:2 other trans isomers	3.2 - 4.0	3.7	0.5
18:3 n3 linolenic acid	0.3 - 0.5	0.2	6.1
19:0 nonadecanoic acid	0.6 - 0.7	0.6	0
20:0 arachidic acid	0.3 - 0.4	0.4-0.5	0.4

¹Range for Primex HVO represents the average \pm 1 standard deviation (soybean and cottonseed or palm oil; n = 4).

²Replacement Hydrogenated Vegetable Oil is a UPS food grade partially HVO (soybean and cottonseed; n= 2).

³Crisco fatty acid profile determined in 2016 (n = 1).

For additional questions or a diet consultation please contact our nutritionists at Askanutritionist@envigo.com. Thank you for your continued support of Envigo Teklad Diets.