



# Specialty Feeds

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**Diet**  
**LDC-2010e**

## Lieber DeCarli Ethanol Diet

A semi-pure diet formulation for laboratory rats and mice based on Lieber Decarli. Modifications have been made to the original diet design to suit locally available raw materials and using AIN 93 Vitamins and minerals.

- The ethanol diet is made to a batch size of 132.2 g. For use the diet should be mixed with 55g ethanol (95%) and 812.8g water. Energy from this mix is 1Kcal/ml from this 35% of total energy is derived from fat, 16% derived from protein, 12% from carbohydrates (Starch and Sucrose) and 37% derived from ethanol.

### Calculated Nutritional Parameters As Fed In Liquid Solution

Protein	4.2%
Total Fat	4.0%
Total Carbohydrate (Starch and Sucrose)	3.0%
Total Ethanol	5.2%
Crude Fibre	1.2%
AD Fibre	1.2%
Digestible Energy	4.2 MJ / Kg
% Total calculated digestible energy from lipids	35.0%
% Total calculated digestible energy from ethanol	37.0%
% Total calculated digestible energy from protein	16.0%

### Diet Form and Features

- Semi pure diet. powder.
- Pack size 132.2g, vacuum packed in oxygen impermeable plastic bags, under nitrogen. Bags are packed into cardboard cartons to protect them during transit.
- Diet suitable for irradiation but not suitable for autoclave.
- Lead time 2 weeks for non-irradiation or 4 weeks for irradiation.



Ingredients- Dry Weight	
Casein (Acid)	313 g/Kg
Maize Oil	64 g/Kg
Olive Oil	215 g/Kg
Safflower Oil	20 g/Kg
Cellulose	76 g/Kg
Gem Gel Starch	207 g/Kg
L Methionine	6.4 g/Kg
Calcium Carbonate	24.8 g/Kg
Sodium Chloride	4.9 g/Kg
AIN93 Trace Minerals	2.7 g/Kg
Potassium Citrate	4.7 g/Kg
Potassium Dihydrogen Phosphate	13.0 g/Kg
Potassium Sulphate	3.1 g/Kg
Choline Chloride (75%)	3.5 g/Kg
AIN93 Vitamins	18.9 g/Kg
Xanthan Gum	22.7 g/Kg

Calculated Amino Acids- As Fed in Liquid	
Valine	0.16%
Leucine	0.22%
Isoleucine	0.11%
Threonine	0.10%
Methionine	0.11%
Cysteine	0.01%
Lysine	0.18%
Phenylalanine	0.12%
Tyrosine	0.13%
Tryptophan	0.03%
Histidine	0.07%

Calculated Total Minerals- As Fed in Liquid	
Calcium	0.07%
Phosphorous	0.04%
Magnesium	0.01%
Sodium	0.03%
Chloride	0.02%
Potassium	0.06%
Sulphur	0.02%
Iron	10 mg/Kg
Copper	0.9 mg/Kg
Iodine	0.03 mg/Kg
Manganese	2.6 mg/Kg
Cobalt	No data
Zinc	6.3 mg/Kg
Molybdenum	0.02 mg/Kg
Selenium	0.04 mg/Kg
Cadmium	No data
Chromium	0.1 mg/Kg
Fluoride	0.1 mg/Kg
Lithium	0.01 mg/Kg
Boron	0.5 mg/Kg
Nickel	0.07 mg/Kg
Vanadium	0.01 mg/Kg



Calculated Total Vitamins- As Fed in Liquid	
Vitamin A (Retinol)	595 IU/Kg
Vitamin D (Cholecalciferol)	149 IU/Kg
Vitamin E (a Tocopherol acetate)	11 mg/Kg
Vitamin K (Menadione)	0.1 mg/Kg
Vitamin C (Ascorbic acid)	None added
Vitamin B1 (Thiamine)	0.9 mg/Kg
Vitamin B2 (Riboflavin)	0.9 mg/Kg
Niacin (Nicotinic acid)	4.5 mg/Kg
Vitamin B6 (Pryridoxine)	1.1 mg/Kg
Pantothenic Acid	2.4 mg/Kg
Biotin	30 ug/Kg
Folic Acid	0.3 mg/Kg
Inositol	None added
Vitamin B12 (Cyancobalamin)	15 ug/Kg
Choline	163 mg/Kg

Calculated Fatty Acid Composition- As Fed	
Myristic Acid 14:0	Trace
Palmitic Acid 16:0	0.26%
Stearic Acid 18:0	0.05%
Palmitoleic Acid 16:1	0.02%
Oleic Acid 18:1	1.43%
Gadoleic Acid 20:1	0.01%
Linoleic Acid 18:2 n6	0.55%
a Linolenic Acid 18:3 n3	0.01%
Arachadonic Acid 20:4 n6	No data
EPA 20:5 n3	No data
DHA 22:6 n3	No data
Total n3	0.01%
Total n6	0.55%
Total Mono Unsaturated Fats	1.45%
Total Polyunsaturated Fats	0.57%
Total Saturated Fats	0.31%

Calculated data uses information from typical raw material composition. It could be expected that individual batches of diet will vary from this figure. **Diet post treatment by irradiation or auto clave could change these parameters.** We are happy to provide full calculated nutritional information for all of our products, however we would like to emphasise that these diets have been specifically designed for manufacture by Specialty Feeds.

