



# Product Resources

Report ▶ Repeat ▶ Revise™

## Over 15,000 OpenSource Diets for Laboratory Animals

### Resource Center

Research Diets' scientists consult with our scientist customers around the world. In our conversation, we integrate information about the animal model, the desired phenotype and the published literature to arrive at suggested diet formulas. We can then produce and ship custom diets in 5 to 7 business days anywhere in the world.

### Custom OpenSource Diets®

Unlike other diet manufacturers, custom purified ingredient diet formulations are standard procedure for Research Diets-- Custom is our Standard. A key benefit of our OpenSource Diets is the complete control researchers have over the diet composition. By carefully designing the diet formulas, researchers can test the effects of small or large controlled changes in nutrient composition.

### Diet Induced Disease Models

Research Diets, Inc. (RDI) has over 25 years of collaborative research experience in the study of dietary factors on phenotype expression or NutriPhenomics. Our expert staff of nutritional scientists has formulated OpenSource Diets with our customers for many therapeutic areas, such as:

- ▶ Obesity
- ▶ Diabetes
- ▶ Cancer
- ▶ Osteoporosis
- ▶ Toxicology
- ▶ Atherosclerosis
- ▶ Hypertension
- ▶ Metabolic Syndrome

### Global Continuity of Models

Establish continuity of your animal models across all facilities worldwide and across therapeutic areas by using the same OpenSource Diets. The known nutritional content and lack of batch-to-batch variability in purified OpenSource Diets means researchers around the world can reliably report, repeat and revise their studies. The very nature of OpenSource diets argues for their use in all lab animal research.

### Incorporate Test Compounds

Research Diets, Inc. will incorporate your test compound into pelleted diets for simple, safe dosing. Feeding test compounds eliminates dosing related stress to the animal, eliminates vehicle effects, and saves time and labor. Precise, graded addition of test compounds to your specified control diet allows evaluation of dose response effects in your animal model. We can blend your compound homogeneously into any diet, typically to ppm and even as low as parts per billion.



Scientific Support  
Research Diets, Inc.  
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When choosing a diet, one should ask three questions:

- 1 Can I report it?**  
(can I tell others exactly what my animals were fed?)
- 2 Can I repeat it?**  
(is there diet variability and will I be able to get the same exact formula next year?)
- 3 Can I revise it?**  
(can I easily change the dietary components while keeping it matched to previous diets?)



# Home Cage Phenotype Assessment

**BioDAQ**<sup>®</sup>  
A product of Research Diets, Inc.

Monitor up to 32 modules in a small footprint.

**FLEXIBLE FORMAT**

Choose single/multiple configurations of food and/or liquid modules for specific experimental designs such as:

- Food and/or Liquid Intake
- Food and/or Liquid Choice/Preference
- Alcohol • Conditioned Taste Aversion
- Place Preference • Thirst • Taste • Palatability

**RETAIN SPILLAGE**

**UPGRADABLE**

The mounting hardware and cages are interchangeable between BioDAQ Unplugged and electronic systems, making upgrades simple. Add the Central Controller, laptop and Peripheral Sensor Controllers (PSC) to complete an electronic system upgrade.

**REDUCE STRESS**

Specially modified plastic shoe box style home cages reduce stress on the animal. The cages provide a suitable environment for long term studies and shorten the acclimation period. Gated hoppers mount outside the cage limiting variability caused by the interaction between researchers and animals.

**NO LEAKS**

## BioDAQ Episodic Intake Monitor

BioDAQ E2 Episodic monitor measures ad libitum food and water intake behavior of singly housed lab rats and mice automatically in their home cage. Computer controlled electronics record individual feeding and drinking bouts, each comprised of unique start date/times, durations, and amounts. Graphic DataViewer software analyzes bout data quickly. Exports to Excel with the click of a button.

## BioDAQ Unplugged

BioDAQ Unplugged features the same cage and gated hoppers as BioDAQ E2. Perimeter mounted hardware reduces stress reaction between researchers and animals. Periodic manual weights can be taken hourly, daily or weekly. Easily upgraded to BioDAQ E2 with addition of electronics.