

Phenotyping: Respiratory Function Panel

Charles River Discovery Services provides a variety of therapeutic phenotyping panels to assist with characterizing your unique models.

Our Respiratory Function Panel includes:

Basic Characterization

- *PhenoFirst® Panel*

PhenoFirst® includes *in vivo* evaluation, basic pathology, and basic clinical pathology. This panel targets organs of the lungs. The minimum recommended sample size is three homozygous or knockout mice and three wild type controls that are matched for age, sex, genetic background, and health status.

Additional Characterization

- *Age of Onset Study*

A breeding colony is set up at Charles River to monitor the respiratory function of offspring. Monthly screening of respiratory function measurements begins at five weeks of age for all offspring. The resulting data is used to determine age of onset of abnormal respiratory function tests and to calculate the percentage of animals affected. The minimum recommended sample size is five breeding pairs that produce sufficient litters to generate 50 offspring of each sex and genotype being characterized.

- *Respiratory Function Assessment*

Respiratory function measurements are taken on a group of mice. The minimum recommended sample size is 10 homozygous or knockout mice and 10 wild type controls that are matched for age, sex, genetic background, and health status.

- *Rodent Multi-Analyte Profile plus Blood Glucose Level*

Each animal is screened for 60 plasma biomarker levels. The minimum recommended sample size is five homozygous or knockout mice and five wild type controls that are matched for age, sex, genetic background, and health status.

Customized Characterization

We recognize that research goals vary. Our team of laboratory animal professionals is available to customize a model characterization plan that meets individual needs and helps you achieve your goals more efficiently.

Available Panels

In addition to the Respiratory Function Panel, Discovery Services provides targeted phenotyping to characterize obesity, diabetes, metabolism, hypertension, osteoporosis, reproduction issues, embryonic lethality, Huntington's disease, and neurodegenerative disease in your unique model.

For more information, please call 1.877.CRIVER.1 or e-mail askcharlesriver@crl.com.