

Stock #: 100006

Strain Common Name: B6D2

Type: F1 Hybrid

Strain Highlights

B6D2F1/J is a hybrid strain created by a cross of a C57BL/6J (B6) female and a DBA/2J (D2) male mouse. B6D2F1/J mice are heterozygous for B6 and D2 alleles at all loci in their genome. The major advantage of F1 hybrids over common inbred strains is the introduction of *hybrid vigor*. Compared to the inbred strains used to create it, the heterozygous genome introduces increased fecundity, litter size, body weight, resistance to disease, and overall life span. At the same time, as long as only the F1 generation is used, genetic uniformity between individual mice is maintained. Also, the genetic heterozygosity leads to a mixed H2 haplotype that enables these mice to accept tissue transplants from both parental strains (C57BL6/J or DBA/2J).

Characteristics

- Genetically and phenotypically uniform
- Exhibit hybrid vigor: increased disease resistance, better survival under stress, greater natural longevity, and larger litters than some inbred strains
- Useful as a genetic background for some deleterious mutations
- Research applications include radiation and behavioral research, and bioassays of nutrients, drugs, pathogens, and hormones

Key Features

- H2-Haplotype *b/d*
- Genetically stable, ensuring reproducible results

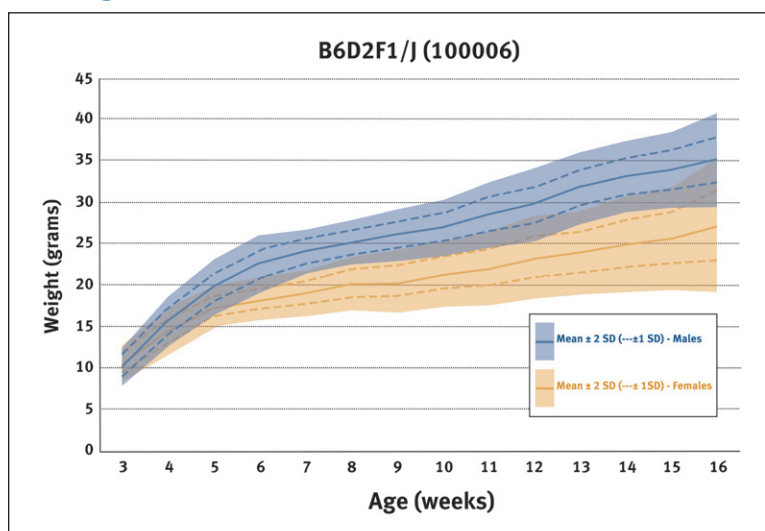


Availability

JAX Ready Strain®

Inventories of B6D2F1/J mice are readily available from our Bar Harbor, ME and Sacramento, CA facilities.

Body Weight Information



Body weight data are from mice fed a diet containing 6% fat (LabDiet® 5K52/5K67).

Technical Support: e-mail micetech@jax.org or visit www.jax.org/jaxmice/micetech

Pricing

For current pricing visit the JAX® Mice database