

C57BL/10J
Stock No: **000665**
 **Inbred Strain**

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

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Also Known As: Black 10, Black 10 J, B10, C57BL10

The C57BL/10J substrain is similar to the C57BL/6J substrain, but allelic variants have been described at the *H9*, *Igh2* and *Lv* loci. C57BL/10J mice are a valuable immunological research tool. They have a high lymphocyte phytohaemagglutinin response, a good immune response to ovalbumin, a poor response to DNP-keyhole limpet haemocyanin and are resistant to induction of passive cutaneous anaphylaxis (IgG1- and IgE- mediated). They are susceptible to immunosuppression of contact hypersensitivity by ultraviolet light, highly susceptible to TNBS-induced colitis and moderately susceptible to experimental allergic encephalomyelitis

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GENETIC OVERVIEW

Genetic Background

Generation

[Contact Technical Support](#)
(2018-07-27 00:00:00)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$35.93 Domestic price for male 4-week

[VIEW PRICE LIST](#)

Details

Detailed Description

C57BL/10J is a substrain of C57BL, and shares a common origin with C57BL/6J (Stock No. [000664](#)), which is one of the most widely used inbred strains. Coat color is black (non-agouti), *a/a*. The C57BL/10J substrain is similar to the C57BL/6J substrain, but allelic variants have been described at the *H9*, *Igh2* and *Lv* loci. C57BL/10J mice have a long life-span (826 +/-29 days in males, 693 +/- 31 days in females). Overall tumor incidence is 33% in males and 31% in females, most of which is due to lymphoma. C57BL/10J mice are prone to dermatitis, which is a common problem in the C57BL strain. C57BL/10J mice are a valuable immunological research tool. They have a high lymphocyte phytohaemagglutinin response, a good immune response to ovalbumin, a poor response to DNP-keyhole limpet haemocyanin and are resistant to induction of passive cutaneous anaphylaxis (IgG1- and IgE- mediated). They are susceptible to immunosuppression of contact hypersensitivity by ultraviolet light, highly susceptible to TNBS-induced colitis and moderately susceptible to experimental allergic encephalomyelitis.

Development

Selected References

Genetics

[+ *P2rx7*^{rs48804829-T}](#)

[+ *Micr1ⁿ*](#)

[+ Mx1^{s1}](#)

[+ Cox7a2^{l^s}](#)

[- Disease/Phenotype](#)

[+ Disease Terms](#)

[+ Research Areas By Phenotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ Phenotype Information](#)

[+ References](#)

[- Technical Support](#)

C O N T A C T T E C H N I C A L S U P P O R T

Genotyping Protocols

Sanger sequencing:[Cdh23](#)

[Genotyping resources and troubleshooting](#)

Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

[This strain is a challenging breeder.](#)

[Additional Breeding and Husbandry Support](#)

Mating System

Sibling x Sibling

Appearance

black

Related Genotype: *a/a*

Citation

When using the C57BL/10J mouse strain in a publication, please include JAX stock #000665 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

 RB08 (Maximum)

 AX28 (Maximum)

Pricing & Availability



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LIVE MOUSE			
AGE		SEX	PRICE
4 weeks		Female	\$37.50
		Male	\$35.93
5 weeks		Female	\$37.50
		Male	\$37.32
6 weeks		Female	\$41.77
		Male	\$41.59
7 weeks		Female	\$46.09
		Male	\$45.86
8 weeks		Female	\$50.44
		Male	\$50.21
9 weeks		Female	\$54.81
		Male	\$54.53
10 weeks		Female	\$58.08
		Male	\$58.88
11 weeks		Male	\$62.00
12 weeks		Male	\$66.20

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THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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Q U E S T I O N S A B O U T T E R M S O F U S E

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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By Allele

By Gene

By Collection






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