C57BL/10J

Stock No: 000665

Inbred Strain

AVAILABLE NOW

PLACE ORDER

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

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.

READ MORE +

GENETIC OVERVIEW

Genetic Background

Contact Technical Support
(2018-07-27 00:00:00)

VIEW GENETICS
RESEARCH APPLICATIONS
Research Tools

BASE PRICE
Starting at:

$33.42 Domestic price for male 3-week

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

P2rx7PASTL

Micrl

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype
Phenotype Information

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Sanger sequencing: Cdh23<sup>Abi<sup>
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
Animal Health Reports
When using the C57BL/10J mouse strain in a publication, please include JAX stock #000665 in your Materials and Methods section.

Facility Barrier Level Descriptions

- R898 (Maximum)
- AX28 (Maximum)

Pricing & Availability

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Live Mouse

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Terms of Use

General Terms and Conditions

**Licensing Information**

Phone: 207-288-6470
Email: TechTran@jax.org

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Related Strains

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