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.
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<sup>P451L</sup>**
- **Mx1<sup>s1</sup>**
- **Micrl<sup>n</sup>**
**Cox7a2a**

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Phenotype

#### Mammalian Phenotype Terms by Genotype

#### Phenotype Information

#### References

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**Technical Support**

**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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#### Domestic

Pricing effective for USA, Canada and Mexico shipping destinations

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<thead>
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<th>AGE</th>
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#### International

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