



B 6 . C^{Ag}/-J

Stock No: 000021 | lethal yellow

Congenic, Spontaneous Mutation



CRYO RECOVERY

P L A C E O R D E R

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Overview

Also Known As: lethal yellow

Nonagouti; agouti yellow (A^Y) is a semidominant spontaneous mutation with homozygotes dying before implantation. Heterozygotes are characterized by obesity, yellow hair pigment, black eyes, elevated malic enzyme in the liver, and susceptibility to several kinds of tumors.

R E A D M O R E +

GENETIC OVERVIEW

Genetic Background Generation

000664 C57BL/6J

A^Y

Allele Type Gene Symbol Gene Name

Spontaneous

a

nonagouti

[VIEW GENETICS](#)

RESEARCH APPLICATIONS

Diabetes and Obesity Research
Dermatology Research
Endocrine Deficiency Research
Research Tools
Immunology, Inflammation and Autoimmunity Research
Internal/Organ Research
Reproductive Biology Research

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

[VIEW PRICE LIST](#)

[- Details](#)

[+ Detailed Description](#)

Mice homozygous for the yellow spontaneous mutation (A^Y) die before implantation or shortly thereafter. The time of death and type of abnormality is, in part, determined by the genetic background on which the mutation is placed. Hair pigment in heterozygous mice is yellow, but eyes are black. Heterozygotes usually become obese and infertile after the first few months. Increased adipose tissue mass is due to fat-cell hypertrophy. It has been hypothesized that the obesity results from the observed reduction in hypothalamic norepinephrine and dopamine levels. Insulin resistance and hyperglycemia follow development of hyperinsulinemia in early adulthood, although the degree is less severe than on the KK/UpJ genetic background (Stock No. [002468](#)). Heterozygotes are also more susceptible to several kinds of tumors than normal mice, and their spleen cells cause a significantly lower graft vs. host reaction. The level of malic enzyme in the liver is elevated.

[+ Control Suggestions](#)

[+ Selected References](#)

[- Genetics](#)

[+ \$A^Y\$](#)

[- Disease/Phenotype](#)

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ Phenotype Information

+ References

- Technical Support

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

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

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Mice heterozygous for A^Y can be identified phenotypically; see Strain Description. A^Y/A^Y homozygotes die embryonically. The weanlings are sometimes small and can be aggressive.

[Additional Breeding and Husbandry Support](#)

Mating System

heterozygote x C57BL/6J or C57BL/6J x heterozygote

Appearance

yellow, affected

Related Genotype: A^Y/a

black, unaffected

Related Genotype: a/a

Citation

When using the lethal yellow mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #000021 in your Materials and Methods section.

[Animal Health Reports](#)

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

- Pricing & Availability



Cryo Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

Cryorecovery - Domestic Pricing

SERVICE

GENOTYPE

PRICE

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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