Overview

Also Known As: spherocytosis 3 Jackson

Mice homozygous for this spontaneous mutation exhibit severe hemolytic anemia and provide a model for hereditary spherocytosis.
Mice homozygous for the spherocytosis 3 Jackson mutation provide a model for hereditary spherocytosis and hereditary elliptocytosis. Homozygotes have severe hemolytic anemia with significantly lower red blood cell count, hemoglobin, and hematocrit, and very high reticulocyte counts. Red blood cell smears show microcytosis, spherocytosis, polychromatophilia, poikilocytosis and frequent irregular spher-elliptocytes. The mean cell volume of red blood cells is not significantly increased. There is elevated bilirubin, iron accumulation is found in the kidney and liver, but iron is depleted from the spleen, where splenomegaly results from the expansion of red pulp. Extramedullary hematopoietic foci are found in the liver.
Genotyping Protocols
Genotyping resources and troubleshooting

Citation
When using the sphero-cytosis 3 Jackson mouse strain in a publication, please cite the originating article(s) and include JAX stock #007875 in your Materials and Methods section.

Animal Health Reports
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

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

- All
- By Allele
- By Gene
- By Collection

All Related Strains