ALS/LtJ

Stock No: 003072

Inbred Strain

Overview

Also Known As: Alloxan Susceptibility

ALS/LtJ and ALR/LtJ (Stock No. 003070) inbred strains are useful for a wide range of studies including type 1 and type 2 diabetes, obesity, metabolism and toxicology research. Treatment of alloxan or streptozotocin causing pancreatic beta cell destruction, leads to severe hyperglycemia and hypoinsulinemia in ALS/LtJ mice. Alloxan-untreated ALS/Lt males exhibit impaired glucose tolerance when tested by intraperitoneal administration of glucose, and become hyperinsulinemic. ALS/LtJ mice contain genes predisposing to both experimentally-induced type 1 and spontaneously-developing type 2 diabetes mellitus. ALS/Lt mice exhibit significantly lower antioxidant defenses than do ALR/Lt. ALS/Lt is a useful control strain for comparing inbred strain susceptibility to free radical-mediated damage.

Genetic overview

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<th>Genetic Background</th>
<th>Generation</th>
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