|  |  |
| --- | --- |
| **Principal Investigator:** |  |
| **Emergency Phone:** |  |
| **Secondary phone:** |  |
| **Email:** |  |
| **IACUC protocol number:** |  |
| **Species used:** |  |
| **LARC rooms used:** |  |
| **Dates of Administration(s):** |  |
| **Describe the personal protective equipment used for the procedures involving streptozotocin** |  |
| **Describe the potential routes of exposure to humans when using streptozocin.** |  |
| **Acute or chronic affects:** |  |
| **Describe the procedures utilizing streptozotocin in animal subjects** |  |
| **Control procedures for animal care** | * The LARC will be informed of intent to use streptozotocin prior to use.
* Give at least 48 hour notice.
* Cages of animals injected with streptozotocin will be clearly labeled as such.
* All bedding changed during chemical administration and for 72 hours beyond final administration must be collected for disposal has hazardous waste.
 |
| **Engineering controls**  | * There is not a chemical fume hood in the UMKC LARC for the manipulation of chemicals.
* Any manipulation of powders or crystals must be performed in a certified fume hood or ducted hood in a laboratory outside of the UMKC LARC.
 |

**INVESTIGATOR’s RESPONSIBILITIES**

Notification of animal care staff

* Research staff will inform animal care staff at a minimum of 48 hours ahead of time that streptozotocin will be used and arrangements will be made for housing of animals.
* Fresh cages will be used for the animals at the time of administration.
* Safety Data Sheets (SDS) will be required to be provided by the PI to the LARC Manager.

Posting requirements

 A copy of this SOP will be posted on the door of the roomin which the animals will be housed and the investigator will provide information to the LARC staff in the safe handling and disposal of animals, carcasses and contaminated waste.

Disposal of hazardous chemical waste

 The UMKC Chemical Management Plan has information concerning the disposal of hazardous chemical waste at the following link. [<http://www.umkc.edu/finadmin/ehs/documents/ChemicalManagementPlanWord06202016.pdf>](http://www.umkc.edu/finadmin/ehs/documents/chem-management-plan.pdf)

 Or, follow your parent institutions requirements if materials are returned to parent institution.

Sharps and needle disposal

 All sharps and needles need to be disposed of at the point of use in an appropriate hard walled sharps container.

Accident or injury reporting

* UMKC Employees.
	+ As soon as possible contact your Supervisor. Your Supervisor should fill out an accident report and contact the University of Missouri System Risk and Insurance Management for directing care
		- Phone: 573-882-8100 (Risk & Insurance Mgmt. UM System)
		- Web page: <http://www.umkc.edu/finadmin/ehs/workers-comp.asp>
* Other affiliated Institutions
	+ Contact the appropriate office or department for direction of care

STREPTOZOTOCIN MATERIALS INFORMATION

CAS Registry Number: 18883-66-4

Chronic affects

 Toxin, mutagen, potentially/probable carcinogenic and or teratogenic to humans (Sufficient evidence in animals based on EPA’s Office of Health and Assessment (Group B2)). Suspected target organs from the EPA kidney, reproductive, skin and suspected development toxicant

Prolonged or repeated exposure to STZ either through inhalation or ingestion can damage the blood and bone marrow. It can damage the kidneys and liver or cause cancer. It can affect the pancreas and cause diabetes.

 Streptozocin is classified as a Group 2B, possibly carcinogenic to humans, by the International Agency for Research on Cancer (IARC).

 Refer to the Safety Data Sheet for additional information concerning the hazards associated with streptozotocin.

Additional information can be found at the following websites:

**National toxicology program:**

<https://ntp.niehs.nih.gov/testing/status/agents/ts-11244-d.html>

**National institutes of Health, TOXNET database:**

<https://toxnet.nlm.nih.gov/cgi-bin/sis/search2/f?./temp/~QqdMRr:3>

**REVISOINS:**

June 2014, Original document

June 2017, revisions and reformatting