

## PATHOGEN SAFETY DATA SHEET

### Adenovirus

CHARACTERISTICS	
Morphology	Member of the Adenoviridae family, non-enveloped double-stranded DNA virus
Disease	Typically, self-limiting mild respiratory illness. Also childhood febrile illness and pharyngoconjunctival fever, Pneumonia, and other acute respiratory illnesses, Pertussis-like illness, Conjunctivitis, Upper respiratory illness, and hepatitis.
Zoonosis	None.

HEALTH HAZARDS	
Host Range	Humans.
Modes of Transmission	Respiratory and fecal-oral routes. Infection can also spread through contaminated fomites, fingers, ophthalmic solutions, and airborne particulates.
Signs and Symptoms	Fever, nasal congestion, coryza, and pharyngitis.
Infectious Dose	Inhalation of as few as 5 adenovirus particles can cause disease in susceptible individuals.
Incubation Period	Approximately 2 to 14 days.

MEDICAL PRECAUTIONS/TREATMENT	
Prophylaxis	None available.
Vaccines	None available.
Treatment	Cidofovir has been reported to be effective, but no controlled trials have been performed.
Surveillance	Monitor for symptoms.
MSU Requirements	Report any exposures

LABORATORY HAZARDS	
Laboratory Acquired Infections (LAIs)	10 cases of laboratory acquired infections have occurred up to 2006.
Sources	Cultures, frozen stocks, other samples described in IBC protocol.

SUPPLEMENTAL REFERENCES	
Canadian MSDS:	<a href="http://www.phac-aspc.gc.ca/lab-bio/res/psds-ftss/index-eng.php">http://www.phac-aspc.gc.ca/lab-bio/res/psds-ftss/index-eng.php</a>
BMBL	<a href="https://www.cdc.gov/labs/BMBL.html">https://www.cdc.gov/labs/BMBL.html</a>
CDC	<a href="https://www.cdc.gov/adenovirus/index.html">https://www.cdc.gov/adenovirus/index.html</a>
NIH Guidelines	<a href="https://osp.od.nih.gov/wp-content/uploads/NIH_Guidelines.pdf">https://osp.od.nih.gov/wp-content/uploads/NIH_Guidelines.pdf</a>

RISK GROUP & CONTAINMENT REQUIREMENTS	
Risk Group 2	Agents that are associated with human disease which is rarely serious and for which preventive or therapeutic interventions are often available.
BSL2	For all procedures involving suspected or known infectious specimen or cultures.
ABSL2	For all procedures involving animals infected with Adenovirus.

SPILL PROCEDURES	
Small	Notify others working in the lab. Remove PPE and don new PPE. Cover area of the spill with absorbent material and add fresh 1:10 bleach:water. Allow 20 minutes of contact time. After 20 minutes, cleanup and dispose of materials.
Large	<ul style="list-style-type: none"> <li>Immediately notify all personnel in the lab and clear all personnel from the area. Remove any contaminated PPE/clothing and leave the lab.</li> <li>Secure the area by locking doors, posting signage and guarding the area to keep people out of the space.</li> </ul> For assistance, contact MSU's Biosafety Officer (406-994-6733) or Safety and Risk Management (406-994-2711).

EXPOSURE PROCEDURES	
Mucous membrane	Flush eyes, mouth, or nose for 5 minutes at eyewash station.
Other Exposures	Wash area with soap and water for 5 minutes.
Reporting	Immediately report incident to supervisor, complete a <a href="#">First Report of Injury</a> form, and submit to Safety and Risk Management.
Medical Follow-up	<b>During business hours:</b> Bridger Occupational Health 3406 Laramie Drive Weekdays 8am -6pm. Weekends 9am-5pm  <b>After business hours:</b> Bozeman Deaconess Hospital Emergency Room 915 Highland Blvd

VIABILITY	
Disinfection	1:5 dilution of bleach, accelerated hydrogen peroxide, or with 70% alcohol. Other disinfectants <a href="#">outlined by the EPA</a> .
Inactivation	Inactivated by moist heat (15 minutes at 121°C) and dry heat (56°C for 30 minutes).
Survival Outside Host	Stable at 36°C for a week, several weeks at room temperature, several months at 4°C, and 7 days to 3 months on dry surfaces.

PERSONAL PROTECTIVE EQUIPMENT (PPE)	
Minimum PPE Requirements	Lab coat, disposable gloves, safety glasses, closed toed shoes, long pants
Additional Precautions	Additional PPE may be required depending on lab specific SOPs and IBC Protocol.