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| **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, and hepatitis. |
| Zoonosis | None. |

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| **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. |

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

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| **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. |

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| **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 utilizing infected animals. |

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| **VIABILITY** | |
| Disinfection | 1:5 dilution of bleach, accelerated hydrogen peroxide, or with 70% alcohol. |
| Inactivation | Inactivated by moist heat (60 minutes at 121oC) and dry heat ((56°C for 30 minutes). |
| Survival Outside Host | Stable at 36oC for a week, several weeks at room temperature, several months at 4oC, and 7 days to 3 months on dry surfaces. |

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| **SUPPLEMENTAL REFERENCES** | |
| BMBL | <https://www.cdc.gov/labs/BMBL.html> |
| NIH Guidelines | <https://osp.od.nih.gov/wp-content/uploads/NIH_Guidelines.pdf> |
| Canada PSDS | <https://www.canada.ca/en/public-health/services/laboratory-biosafety-biosecurity/pathogen-safety-data-sheets-risk-assessment/adenovirus-types-1-2-3-4-5-7-pathogen-safety-data-sheet.html> and <https://www.canada.ca/en/public-health/services/laboratory-biosafety-biosecurity/pathogen-safety-data-sheets-risk-assessment/adenovirus-serotypes-40-41.html> |

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| **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 (or as directed) of contact time. After 20 minutes, cleanup and dispose of materials. |
| Large | * Immediately notify all personnel in the lab and clear all personnel from the area. Remove any contaminated PPE/clothing and leave the lab. * Secure the area by locking doors, posting signage and guarding the area to keep people out of the space.   For assistance, contact MSU's Biosafety Officer (406-994-6733) or Safety and Risk Management (406-994-2711). |

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| **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 [First Report of Injury](https://firstreportinjury.mus.edu/) form, and submit to Safety and Risk Management. |
| Medical Follow-up | **During business hours:**  Bridger Occupational Health 3400 Laramie Drive Weekdays 8am -6pm. Weekends 9am-5pm  406-577-7674  **After business hours:**  Bozeman Deaconess Hospital Emergency Room  915 Highland Blvd |

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| **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. |