

## PATHOGEN SAFETY DATA SHEET

### Streptococcus spp.

CHARACTERISTICS	
Morphology	Gram-positive coccus or spherical, non-sporeforming facultative anaerobic bacteria that grows in pairs or chains.
Disease	Pharyngitis, pneumonia, meningitis, endocarditis, necrotizing fasciitis, urinary tract infections.
Zoonosis	Yes

HEALTH HAZARDS	
Host Range	Humans and animals (cattle, poultry, fish, reptiles).
Modes of Transmission	Ingestion, exposure of mucous membranes, penetration through skin; wound contamination.
Signs and Symptoms	Respiratory and gastrointestinal illness, diarrhea, redness and swelling at site of infection.
Infectious Dose	>10 <sup>6</sup> -10 <sup>7</sup> organisms.
Incubation Period	Days to weeks

MEDICAL PRECAUTIONS/TREATMENT	
Prophylaxis	None.
Vaccines	None.
Treatment	
Surveillance	Monitor for symptoms of infection.
MSU Requirements	Report any exposures

LABORATORY HAZARDS	
Laboratory Acquired Infections (LAIs)	Cases have been reported
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	
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 utilizing infected animals.

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	<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	1:10 bleach:water; or 70% ethanol.
Inactivation	Inactivated by moist heat (15 min at 121°C) and dry heat (1 hour at 170°C)
Survival Outside Host	Survives in mud, litter, and sediment, limited survival on 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.