

## PATHOGEN SAFETY DATA SHEET

### Enterococcus faecium and faecalis

CHARACTERISTICS	
Morphology	Facultatively anaerobic gram-positive bacteria.
Disease	Nosocomial infections, including urinary tract infections, wound infections, and bacteremia.
Zoonosis	High likelihood that it can be transmitted from animals to humans.

HEALTH HAZARDS	
Host Range	Humans and animals.
Modes of Transmission	Nosocomial and person-to-person; can also be transmitted on food products
Signs and Symptoms	Can cause urinary tract, wound, and soft tissue infections
Infectious Dose	Unknown.
Incubation Period	Unknown.

MEDICAL PRECAUTIONS/TREATMENT	
Prophylaxis	None available.
Vaccines	None available.
Treatment	Penicillin, ampicillin, and vancomycin.
Surveillance	Monitor for symptoms.
MSU Requirements	Report any exposures

LABORATORY HAZARDS	
Laboratory Acquired Infections (LAIs)	No cases have been reported.
Sources	Blood, urine, wound samples, and feces. 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/hai/organisms/vre/vre.html">https://www.cdc.gov/hai/organisms/vre/vre.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 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	<p><b>During business hours:</b>            Bridger Occupational Health 3406 Laramie Drive            Weekdays 8am -6pm. Weekends 9am-5pm</p> <p><b>After business hours:</b>            Bozeman Deaconess Hospital Emergency Room            915 Highland Blvd</p>

VIABILITY	
Disinfection	Susceptible to 1:10 bleach:water, 70 % ethanol, accelerated hydrogen peroxide
Inactivation	Inactivated by moist heat (121°C for 30 min)
Survival Outside Host	Can survive 5 days to 4 months on dry inanimate surfaces. Can grow and survive in harsh environments, and persist almost anywhere including soil, plants, water, and food.

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.