

The University of Texas at Tyler Environmental Health and Safety BIOLOGICAL AGENT REFERENCE SHEET

Characteristics	
Risk Group	2 - Agents that are associated with human disease which is rarely serious and for which preventive or therapeutic interventions are often available.
Agent Type	Biohazard
Description	Streptococcus agalaciae is an faculive anaerobic, Gram-positive, non-motile, non- sporeforming, catalase-negative cocci. It is found in chains and large colonies of up to 50 cells. It is between 0.5-1.0 μ m in size. It has a β -hemolytic on blood agar and has 9 different sterotypes. The bacterium is known to cause mostly sepsis, pneumonia and meningitis in neonates. Neonates who are premature, underweight, immunocompromised are at higher risk of developing Group B streptococcal infection.
Host Range	Humans (neonates, immunocompromized, elderly); cows, dogs, cats, rabbits, horses, guinea pigs, and goats
Exposure route	Aerosol/inahalation, direct contact, dairy products
Incubation period	< 7 days

Laboratory Hazards	
High Energy	Centrifugation, sonication, vortexing
Sharps	Needles, broken glass

Aerosols	Shaking, liquid culturing, pipetting, coughing, sneezing
Equipment	unknown
Exposed body	Skin, eyes, mucous membranes
Notes	

Laboratory Handling Guidelines		
Biosafety Level	2 - refer to Biosafety Manual; contact EH&S for a copy	
Training	EH&S Biosafety Training; Lab specific training	
Engineering controls	Use in BSL II only	
PPE	Eye protection, gloves and lab coat	
Waste	Biohazard - put in red biohazard bins	

Agent Viability		
Disinfection	1% bleach, 70% ethanol	
Survival outside host	The bacterium can survive for months on dry dust in buildings; milk at -20*C for 4 weeks; fish tissues at -70*C for > 9 months	
Engineering controls	BSC if working with liquids; lids while working with high energy equipment	
PPE	Eye protection, gloves, long sleeve or lab coat	
Waste	Biohazard - put in red biohazard bins	

Exposure and Spill procedures		
Mucous membranes	Flush eyes, nose, mouth/throat for 15 minutes	
Skin contact	Wash with soap and water for a minimum of 30 second for bare skin contact; for broken skin wash with soap and water for 15 minutes	
Minor (small) spills	Notify all persons present in the area. Allow aerosols to settle. While wearing protective clothing, gently cover the spill with absorbent paper towel and apply appropriate disinfectant, starting at perimeter and working towards the centre. Allow sufficient contact time before clean up.	
Major (large) spills	Contact EH&S immediately; after-hours contact University Police	
Waste	Decontaminate all wastes before disposal by incineration, chemical disinfection or steam sterilization	

References

Streptococcus agalaciae. https://www.canada.ca/en/public-health/services/laboratory-biosafetybiosecurity/pathogen-safety-data-sheets-risk-assessment/streptococcus-agalactiae.html