

PATHOGEN SAFETY DATA SHEET

Klebsiella pneumoniae

CHARACTERISTICS	
Morphology	Gram negative, nonmotile, usually encapsulated rodshaped bacteria.
	Pneumonia, abscess (lung, brain, liver), meningitis,
Disease	urinary tract infection; common nosocomial pathogen.
Zoonosis	none

HEALTH HAZARDS	
Host Range	Humans and animals
	Can be transmitted through skin contact with
Modes of	environmentally contaminated surfaces and/or
Transmission	objects.
	Fevers, chills, and leukocytosis with red currant jellylike
Signs and	sputum. Rare complications include lung infection
Symptoms	involving necrosis and sloughing of the entire lobe.
Infectious Dose	unknown
Incubation Period	unknown

MEDICAL PRECAUTIONS/TREATMENT	
Prophylaxis	None available
Vaccines	None available
	Ceftazidime, ceftriaxone, cefotaxime,
	piperacillintazobactam, imipeneum, gentamicin, and
Treatment	amikacin.
Surveillance	Monitor for symptoms
MSU Requirements	Report any exposures

LABORATORY HAZARDS	
Laboratory	
Acquired Infections	
(LAIs)	1 case
	Respiratory tract. Cultures, frozen stocks, other
Sources	samples described in IBC protocol.

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

RISK GROUP & CONTAINMENT REQUIREMENTS	
	Agents that are associated with human disease
	which is rarely serious and for which preventive or
Risk Group 2	therapeutic interventions are often available.
	For all procedures involving suspected or known
BSL2	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.
	 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-
Large	2711).

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

VIABILITY	
	Susceptible to 1:10 bleach:water, 70 % ethanol and
Disinfection	glutaraldehyde.
	Inactivated by moist heat (15 minutes at 121°C) and
Inactivation	dry heat (1 hour at 170°C)
Survival Outside Host	Extended periods of time.

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.