

PSDS

Burkholderia thailandensis

PATHOGEN SAFETY DATA SHEET

CHARACTERISTICS	
Synonym or Cross Reference	Burkholderia thailandensis is a non-virulent but closely related species of Burkholderia pseudomallei.
Disease	Causes infections as an opportunistic pathogen.
Morphology	Motile aerobic oxidase positive Gram-negative bacillus commonly found in liquid reservoirs and moist environments.
Zoonosis	Rarely infectious to animals

RISK GROUP & CONTAINMENT REQUIREMENTS

ABSL-2	For all procedures utilizing infected animals.
BSL-2/BSL-2+	For all procedures involving suspected or known infectious specimen or cultures, work in a BSC unless otherwise approved and stated in lab-specific manual.
Risk Group 2	Agents that are associated with human disease which is rarely serious and for which preventive or therapeutic interventions are often available.

LABORATORY HAZARDS

Primary Hazards	Direct contact with cultures and infectious materials from humans, animals or the environment; ingestion; autoinoculation; exposure to infectious aerosols and droplets.
Sources	Samples described in IBC protocol.
Lab Acquired Infections (LAIs)	None reported to date.

PERSONAL PROTECTIVE EQUIPMENT

Additional Precautions	Additional PPE may be required depending on lab-specific SOPs and IBC Protocol.
Minimum PPE Requirements	Lab coat, disposable gloves, safety glasses, closed toed shoes, long pants.

SPILL PROCEDURES

Large	Immediately notify all lab personnel and clear the area. Remove any contaminated PPE/clothing before exiting the lab. Lock all entry doors, post warning signage, and deny entry. Call DPS (213-740-4321) and ask to notify EH&S. Inform the PI and/or Lab Manager/Supervisor as soon as possible.
Small	Notify all lab personnel lab. Remove contaminated PPE and don new PPE. Cover spill area with absorbent material and add fresh 1:10 bleach:water. Allow 20 minutes (or as directed) contact time. After 20 minutes, clean up and dispose of materials.

VIABILITY

Disinfection	Use 10 % dilution of household bleach (minimum 0.3% sodium hypochlorite) for 20 to 30 minutes, or an acceptable time approved by IBC and EH&S.
Survival Outside Host	Unknown

HEALTH HAZARDS	
Host Range	Humans and animals (rare)
Incubation Period	Unknown
Infectious Dose	Unknown
Modes of Transmission	Contact with soil or water where the bacterium normally resides.
Signs and Symptoms	Uncommon; however, fever, productive cough with white sputum, and shortness of breath have been reported.

EXPOSURE PROCEDURES

Medical Follow-up	Visit USC’s designated healthcare provider. Bring a copy of this PSDS.
Mucous Membrane	Flush eyes for 5-10 minutes at eyewash station.
Other Exposures	Immediately wash affected area with soap and water for 15 minutes.
Reporting	Immediately report incident to supervisor, notify EH&S, and complete Manager’s Report.

MEDICAL PRECAUTIONS/TREATMENT

Prophylaxis	None
Surveillance	Monitor for symptoms of infection.
Treatment	Empirical treatment with meropenem has been performed.
USC Requirements	Immediately report any exposures to Environmental Health & Safety.
Vaccines	None available

REFERENCES

BMBL http://tiny.cc/cdc-bmb1	CDC http://tiny.cc/cdc-bthailandensis
NIH Guidelines http://tiny.cc/nih-bio-secure	Virginia Tech http://tiny.cc/vt-psds