PATHOGEN SAFETY DATA SHEET

Risk Group 1/Biosafety Containment Level 1 (RG1/BSL1)

BSL1

Large

ABSL1/2

| Common Risk Group 1 Agents | |
|----------------------------|--|
| | MC1061, K-12, MG1655, MC1061, DH5alpha, DH10b, |
| | AD494(DE3), NovaBlue, HMS174, Origami (DE3), B |
| Escherichia coli | strain, Bl21, NEB T7 Express, Bl21(DE3) pLysS, |
| (cloning strains) | B834(DE3) pLysS, Rosetta, HB101, JM110 |
| | Alcaligenes faecalis, Bacillus cereus, Bacillus |
| | mageterium, Bacillus subtilis, Clostridium sporogenes, |
| | Enterobacter aerogenes, Enterobactor cloacae, Kocuria |
| | rosea, Lactobacillus spp., Micrococcus luteus, |
| | Mycobacterium smegatis, Naelgleria sicca, Neisseria |
| | subflava, Penicillium notatum, Rhizopus stolonifera, |
| | Rhodospirillum rubrum, Serratia marcescens, |
| | Staphylococcus epidermidis, Streptococcus bovis, |
| Bacteria | Streptococcus lactis |
| | Fusarium pseudograminearum, Fusarium oxysporum, |
| | Aphanomyces cochlioides, Potato virus X, Potato virus |
| | y, Phytophthora infestans, Pythium ultimum, |
| | Rhizoctonia solani, Wheat streak mosaic virus, Barley |
| Native Plant | yellow dwarf luteovirus, Barley stripe mosaic virus, |
| Pathogens | Aphanomyces euteiches |
| Yeast | Saccharomyces cerevisiae |
| Cell lines | Sf9 Insect cell lines, Rodent cell lines |

| 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 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- | |

For all procedures involving RG1 agents

Animal housing requirements determined by the

CONTAINMENT REQUIREMENTS

ARC/AV.

2711).

| HEALTH HAZARDS | |
|----------------|---|
| | Biological agents not known to cause disease in healthy adult humans. However, some RG1 biological agents can act as opportunistic pathogens in immunocompromised individuals and the young and |
| Host Range | elderly. |

| 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 First Report of Injury 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: |
| 1 | Bozeman Deaconess Hospital Emergency Room |
| Medical Follow-up | 915 Highland Blvd |

| MEDICAL PRE | MEDICAL PRECAUTIONS/TREATMENT | |
|------------------|-------------------------------|--|
| Prophylaxis | None | |
| Vaccines | None | |
| Surveillance | Monitor for symptoms. | |
| MSU Requirements | Report any exposures. | |

| VIABILITY | |
|--------------|---|
| Disinfection | Susceptible to bleach, 70% ethanol, and other disinfectants as outlined by the EPA. |
| Inactivation | Inactivated by moist heat (15 minutes at 121°C) and dry heat (1 hour at 160-170°C). |

| LABORATORY HAZARDS | |
|---------------------|---------|
| Laboratory | |
| Acquired Infections | |
| (LAIs) | Unknown |

| PERSONAL PROTECTIVE EQUIPMENT (PPE) | |
|-------------------------------------|--|
| Minimum PPE Requirements | Lab coat, disposable gloves, safety glasses, closed toed shoes, long pants |
| Additional | Additional PPE may be required depending on lab |
| Precautions | specific SOPs and 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 |