



## VUMC Export Compliance

### Export-Controlled & Restricted Bacteria

#### Bacteria

- Bacillus anthracis;
- Brucella abortus;
- Brucella melitensis;
- Brucella suis;
- Burkholderia mallei (Pseudomonas mallei);
- Burkholderia pseudomallei (Pseudomonas pseudomallei);
- Chlamydia psittaci (Chlamydophila psittaci);
- Clavibacter michiganensis subspecies sepedonicus (syn. Corynebacterium michiganensis subspecies sepedonicum or Corynebacterium sepedonicum);
- Clostridium argentinense (formerly known as Clostridium botulinum Type G), botulinum neurotoxin producing strains;
- Clostridium baratii, botulinum neurotoxin producing strains;
- Clostridium botulinum;
- Clostridium butyricum, botulinum neurotoxin producing strains;
- Clostridium perfringens, epsilon toxin producing types;
- Coxiella burnetii;
- Francisella tularensis;
- Mycoplasma capricolum subspecies capripneumoniae (“strain F38”);
- Mycoplasma mycoides subspecies mycoides SC (small colony) (a.k.a. contagious bovine pleuropneumonia);
- Ralstonia solanacearum, race 3, biovar 2;
- Raythayibactor toxicus
- Rickettsia prowazekii;
- Salmonella enterica subspecies enterica serovar Typhi (Salmonella typhi);
- Shiga toxin producing Escherichia coli (STEC) of serogroups O26, O45, O103, O104, O111, O121, O145, O157, and other shiga toxin producing serogroups;
  - Note: Shiga toxin producing Escherichia coli (STEC) includes, inter alia, enterohaemorrhagic E. coli (EHEC), Verotoxin producing E. coli (VTEC) or verocytotoxin-producing E. coli (VTEC)
- Shigella dysenteriae;
- Vibrio cholerae; or
- Xanthomonas albilineans;
- Xanthomonas axonopodis pv. citri (Xanthomonas campestris pv. citri A) (Xanthomonas campestris pv. citri);
- Xanthomonas oryzae
- Yersinia pestis

#### Vaccines & Immunotoxins

- Vaccines against items above;
- Immunotoxins containing items above;
- Medical products containing toxins (e.g. botulinum toxin, conotoxin, etc.)
- Diagnostic and food testing kits containing items above

**NOTE: Genetic elements from any of the categories above are also controlled.**

*Specifically, any nucleic acid sequences which code for biological toxins, any nucleic acid sequences that are a hazard to human health when transcribed or translated, or any nucleic acid sequence that would make any restricted microorganism above more pathogenic.*

*This also covers microorganisms that have been genetically altered to express the above genetic elements.*