# Refer also to the CDC/NIH publication, [*Biosafety in Microbiological and Biomedical Laboratories (BMBL), 6th ed*](https://www.cdc.gov/labs/BMBL.html)*.*

## Appendix B-II-A. Risk Group 2 (RG2) - Bacterial Agents Including Chlamydia

* *Acinetobacter baumannii* (formerly *Acinetobacter calcoaceticus*)
* *Actinobacillus*
* *Actinomyces pyogenes* (formerly *Corynebacterium pyogenes*)
* *Aeromonas hydrophila*
* *Amycolata autotrophica*
* *Archanobacterium haemolyticum* (formerly *Corynebacterium haemolyticum*)
* *Arizona hinshawii* - all serotypes
* *Bacillus anthracis*
* *Bartonella henselae, B. quintana, B. vinsonii*
* *Bordetella* including *B. pertussis*
* *Borrelia recurrentis, B. burgdorferi*
* *Burkholderia* (formerly *Pseudomonas* species) except those listed in Appendix B-III-A (RG3))
* *Campylobacter coli, C. fetus, C. jejuni*
* *Chlamydia psittaci*, *C. trachomatis*, *C. pneumoniae*
* *Clostridium botulinum*, *Cl. chauvoei, Cl. haemolyticum, Cl. histolyticum, Cl. novyi, Cl. septicum, Cl. tetani*
* *Corynebacterium diphtheriae, C. pseudotuberculosis, C. renale*
* *Dermatophilus congolensis*
* *Edwardsiella tarda*
* *Erysipelothrix rhusiopathiae*
* *Escherichia coli* - all enteropathogenic, enterotoxigenic, enteroinvasive and strains bearing K1 antigen, including *E. coli* O157:H7
* *Haemophilus ducreyi, H. influenzae*
* *Helicobacter pylori*
* *Klebsiella* - all species except *K. oxytoca* (RG1)
* *Legionella* including *L. pneumophila*
* *Leptospira interrogans* - all serotypes
* *Listeria*
* *Moraxella*
* *Mycobacterium* (except those listed in Appendix B-III-A (RG3)) including *M. avium* complex, *M. asiaticum, M.bovis* BCG vaccine strain, *M. chelonei, M. fortuitum, M. kansasii, M. leprae, M. malmoense, M. marinum, M.paratuberculosis, M. scrofulaceum, M. simiae, M. szulgai, M. ulcerans, M. xenopi*
* *Mycoplasma*, except *M. mycoides* and *M. agalactiae* which are restricted animal pathogens
* *Neisseria gonorrhoeae*, *N. meningitidis*
* *Nocardia asteroides, N. brasiliensis, N. otitidiscaviarum, N. transvalensis*
* *Rhodococcus equi*
* *Salmonella* including *S. arizonae, S. cholerasuis, S. enteritidis, S. gallinarum-pullorum, S. meleagridis, S.paratyphi,* A, B, C, *S. typhi*, *S. typhimurium*
* *Shigella* including *S. boydii, S. dysenteriae,* type 1, *S. flexneri, S. sonnei*
* *Sphaerophorus necrophorus*
* *Staphylococcus aureus*
* *Streptobacillus moniliformis*
* *Streptococcus* including *S. pneumoniae, S. pyogenes*
* *Treponema pallidum, T. carateum*
* *Vibrio cholerae, V. parahemolyticus, V. vulnificus*
* *Yersinia enterocolitica*

## Appendix B-II-B. Risk Group 2 (RG2) - Fungal Agents

* *Blastomyces dermatitidis*
* *Cladosporium bantianum, C. (Xylohypha) trichoides*
* *Cryptococcus neoformans*
* *Dactylaria galopava (Ochroconis gallopavum)*
* *Epidermophyton*
* *Exophiala (Wangiella) dermatitidis*
* *Fonsecaea pedrosoi*
* *Microsporum*
* *Paracoccidioides braziliensis*
* *Penicillium marneffei*
* *Sporothrix schenckii*
* *Trichophyton*

## Appendix B-II-C. Risk Group 2 (RG2) - Parasitic Agents

* *Ancylostoma* human hookworms including *A. duodenale, A. ceylanicum*
* *Ascaris* including *Ascaris lumbricoides suum*
* *Babesia* including *B. divergens, B. microti*
* *Brugia* filaria worms including *B. malayi, B. timori*
* *Coccidia*
* *Cryptosporidium* including *C. parvum*
* *Cysticercus cellulosae* (hydatid cyst, larva of *T. solium*)
* *Echinococcus* including *E. granulosis, E. multilocularis, E. vogeli*
* *Entamoeba histolytica*
* *Enterobius*
* *Fasciola* including *F. gigantica, F. hepatica*
* *Giardia* including *G. lamblia*
* *Heterophyes*
* *Hymenolepis* including *H. diminuta, H. nana*
* *Isospora*
* *Leishmania* including *L. braziliensis, L. donovani, L. ethiopia, L. major, L. mexicana, L. peruvania, L. tropica*
* *Loa loa* filaria worms
* *Microsporidium*
* *Naegleria fowleri*
* *Necator* human hookworms including *N. americanus*
* *Onchocerca* filaria worms including, *O. volvulus*
* *Plasmodium* including simian species, *P. cynomologi, P. falciparum, P. malariae, P. ovale, P. vivax*
* *Sarcocystis* including *S. sui hominis*
* *Schistosoma* including *S. haematobium, S. intercalatum, S. japonicum, S. mansoni, S. mekongi*
* *Strongyloides* including *S. stercoralis*
* *Taenia solium*
* *Toxocara* including *T. canis*
* *Toxoplasma* including *T. gondii*
* *Trichinella spiralis*
* *Trypanosoma* including *T. brucei brucei, T. brucei gambiense, T. brucei rhodesiense, T. cruzi*
* *Wuchereria bancrofti* filaria worms

## Appendix B-II-D. Risk Group 2 (RG2) - Viruses

Adenoviruses, human - all types

Alphaviruses (Togaviruses) - Group A Arboviruses

* Eastern equine encephalomyelitis virus
* Venezuelan equine encephalomyelitis vaccine strain TC-83
* Western equine encephalomyelitis virus

Arenaviruses

* Lymphocytic choriomeningitis virus (non-neurotropic strains)
* Tacaribe virus complex

Bunyaviruses

* Bunyamwera virus
* Rift Valley fever virus vaccine strain MP-12

Caliciviruses

Coronaviruses

Flaviviruses (Togaviruses) - Group B Arboviruses

* Dengue virus serotypes 1, 2, 3, and 4
* Yellow fever virus vaccine strain 17D

Hepatitis A, B, C, D, and E viruses

Herpesviruses - except Herpesvirus simiae (Monkey B virus)

* --Cytomegalovirus
* --Epstein Barr virus
* --*Herpes simplex* types 1 and 2
* --*Herpes zoster*
* --Human herpesvirus types 6 and 7

Orthomyxoviruses

* Influenza viruses types A, B, and C

Papovaviruses

* All human papilloma viruses

Paramyxoviruses

* Newcastle disease virus
* Measles virus
* Mumps virus
* Parainfluenza viruses types 1, 2, 3, and 4
* Respiratory syncytial virus

Parvoviruses

* Human parvovirus (B19)

Picornaviruses

* Coxsackie viruses types A and B
* Echoviruses - all types
* Polioviruses - all types, wild and attenuated
* Rhinoviruses - all types

Poxviruses - all types except Monkeypox virus and restricted poxviruses including Alastrim, Smallpox, and Whitepox

Reoviruses - all types including Coltivirus, human Rotavirus, and Orbivirus (Colorado tick fever virus)

Rhabdoviruses

* Rabies virus - all strains
* Vesicular stomatitis virus - laboratory adapted strains including VSV-Indiana, San Juan, and Glasgow

Togaviruses (see Alphaviruses and Flaviviruses)

* Rubivirus (rubella)