

Biosafety Guidance for Viral Vector Systems

Virus	Biosafety Level (BSL)	Animal Biosafety Level (ABSL)
Adenovirus	BSL-2	ABSL-2 for 72 hours then ABSL-1; ABSL-2 if human cells are used
Adeno-Associated Virus	BSL-1; BSL-2 if helper virus is used (or if AAV production involves amplification in human cells)	ABSL-1; ABSL-2 if helper virus is used (or if AAV production involves amplification in human cells)
Baculovirus	BSL-1	ABSL-1
Epstein - Barr Virus	BSL-2	ABSL-2
Herpes Simplex Virus	BSL-2	ABSL-2
Lentivirus	BSL-2; BSL-2+ if amphotropic or VSV-g envelope; BSL-3 for large volumes (>10 liters)	3 rd Generation or Higher: In rodents without human cells present is ABSL-2 for 72 hours, then ABSL-1 Transformed/transfected cells cultured <i>in vitro</i> for >72 hours prior to injection into rodent is ABSL-1 (plus the use of a certified Biological Safety Cabinet)
Moloney Murine Leukemia Virus	BSL-1 (ecotropic); BSL-2 if amphotropic, VSV-g pseudotyped, or contains toxin or oncogene	ABSL-1 housing for ecotropic; ABSL-2 for amphotropic or pseudotyped vector
Vaccinia Virus	BSL-2; BSL-1 for highly attenuated strains	ABSL-2 ABSL-1 for highly attenuated strains
Rabies Virus	BSL-2	ABSL-2
Sendai Virus	BSL-2	ABSL-2

References:

http://web.stanford.edu/dept/EHS/prod/researchlab/bio/docs/Working_with_Viral_Vectors.pdf

http://ehs.uky.edu/docs/pdf/bio_viral_vectors_0001.pdf

http://www.dartmouth.edu/~ehs/biological/biosafety_docs/110_1_ibc_viral_vector_policy.pdf