

## BIOSAFETY LEVELS FOR VIRAL VECTORS

The following table lists the biosafety levels (BSLs) for viral vector systems with and without oncogenic inserts. EH&S and the IBC will perform a risk assessment for each vector system and gene insert combination prior to approval. For RCV testing information, refer to specific information for each vector.

<b>Vector system</b>	<b>Biosafety level</b>	<b>Biosafety level with oncogenic insert</b>	<b>RCV testing available?</b>
Adeno-associated viral (AAV) vector without helper virus	BSL-1/ABSL-1	BSL-2/ABSL-2	No
Adeno-associated viral (AAV) vector with helper virus	BSL-2/ABSL-2	BSL-2/ABSL-2	Can test for presence of helper virus
Adenoviral vector	BSL-2/ABSL-2	BSL-2/ABSL-2	Yes
Foamyviral vector, non-integrating	BSL-1/ABSL-1	BSL-2/ABSL-2	Yes
Gammaretroviral vector, amphotropic pseudotype	BSL-2/ABSL-2	BSL-2 with BSL-3 practices/ ABSL-2 with ABSL-3 practices	Yes
Gammaretroviral vector, ecotropic pseudotype	BSL-1/ABSL-1	BSL-2/ABSL-2	Yes
Herpesvirus vector	BSL-2/ABSL-2	BSL-2/ABSL-2	No
Lentiviral vector, 1 <sup>st</sup> /2 <sup>nd</sup> /or unknown generation	BSL-2/ABSL-2	BSL-2 with BSL-3 practices/ ABSL-2 with ABSL-3 practices	Yes
Lentiviral vector, 3 <sup>rd</sup> generation	BSL-1/ABSL-1	BSL-2/ABSL-2	No
Sendai viral vector	BSL-2/ABSL-2	BSL-2/ABSL-2	No
Sindbis viral vector	BSL-2/ABSL-2	BSL-2/ABSL-2	Yes

For questions, contact EH&S Biosafety at [ehsbio@uw.edu](mailto:ehsbio@uw.edu) or 206-221-7770.