Applied Biological Materials Inc.
Tel: 1-866-757-2414
Email: info@abmGood.com
Website: www.abmGood.com

AAV Serotypes Blast™ Kit

Store at –80°C

Product	Quantity	Titer	Cat. No
AAV Serotypes Blast™ Kit	9 x 100 µl	1x 10^9 GC/ml	**AAV099**

The kit has a total of 9 serotypes low titer AAV. After the optimal infection condition is identified, the individual serotypes may be ordered separately either in low titer format or custom high titer format. For the catalog number AAV099-X, the "X" indicates serotypes from 1 to 9. When ordering, please specify the chosen serotype number, interested gene name and desired titer to technical@abmgood.com.

Product Description

It has been well established that many variables can affect AAV transduction efficiency: different serotypes, cell types, multiciplicity of infection (MOI), etc. The AAV Serotypes Blast™ Kit is a sample of different premade low titer AAV of different serotypes, developed to simplify the transduction optimization process. This starter kit consists of control viruses of 9 common serotypes expressing GFP signals, allowing you to save time in finding the AAV serotype that works best for your cells. To find the optimal conditions for your experiment, all you need to do is transduce your cells with the appropriate MOI and monitor GFP signals.

With concluded results, for further quotation and ordering, please email us at *order@abmgood.com* or *technical@abmgood.com*.

Quality Control

Every lot is tested for performance consistency, titer, sterility and purity.

Storage

Store all components at -80°C in a non-frost-free freezer. All components are stable for 1 year from the date of shipping when stored and handled properly. To prevent titer degradation, avoid freeze thaw cycles by making aliquots.

Serotype Selection

To help you select the optimal transduction conditions, the tropism of AAV serotypes is summarized in the following table:

Cat. No	AAV Serotypes	CNS/ Retina	Heart	Lung	Liver	Skeletal Muscle
AAV099-1	AAV 1	X	X	X		X
AAV099-2	AAV 2	X			X	X
AAV099-3	AAV 3	X	X		X	
AAV099-4	AAV 4	X	X			
AAV099-5	AAV 5	X		X		
AAV099-6	AAV 6		X	X	X	X
AAV099-7	AAV 7	X			X	X
AAV099-8	AAV 8	X			X	X
AAV099-9	AAV 9	X	X	X	X	X

Transduction Procedures

1. Prior to transduction, thaw AAV from –80°C at room temperature.
2. Calculate the appropriate volume of virus needed to be diluted in media to achieve desired MOI.

   MOI = AAV GC particles needed / Number of cells to be infected.

   The optimal MOI for AAV could be anywhere from 10,000 to 500,000 depending on different serotypes and cell types.
3. Dilute AAV into media of your choice as calculated above. We suggest trying different MOIs for accurate optimization. eg. To infect 10,000 cells with MOI of 10, 000, use 100 µl of 10^9 GC/ml.
4. Once the virus containing media is ready, and your cells are ready to be infected, remove original cell culture medium and add the following amounts of AAV containing media:

Plate Size	Volume of Media containing Virus
24-well plate	0.2-0.3 ml/ well
12-well plate	0.5-0.8 ml/ well
6-well plate	1-1.5 ml/ well
60 mm-plate	3-4 ml/ plate
10 cm-plate	8-12 ml/ plate

5. Incubate the transduced cells at 37°C and 5% CO_2 or as per your experimental designs and monitor GFP signal to identify best serotype and MOI for your experiments.