

# Product datasheet

## AAV9 empty capsids

### Short overview

<b>Cat. No.</b>	66V090
<b>Quantity</b>	100 µl (> 5.0E+11 capsids)
<b>Concentration</b>	> 5.0E+12 capsids/ml; please find the lot-specific concentration on the CoA and on the vial

### Product description

<b>Formulation</b>	PBS + 0.014% Tween20 + 1 mM MgCl <sub>2</sub> + 2.5 mM KCl
<b>Source</b>	Produced in HEK293T cells
<b>Purity</b>	> 95% by SDS-PAGE and silver stain
<b>Quality check</b>	Final titer was assigned on internal reference material using two AAV9 ELISA kits (PRAAV9 and PRAAV9XP); QC included analysis of filling grade and Endotoxin testing
<b>Packaging Plasmid</b>	pRep2-Cap9 + pHelper
<b>Product description</b>	Purified empty adeno-associated virus 9 capsids (AAV9)
<b>Endotoxin</b>	< 1.0 EU/ml
<b>Note</b>	Please centrifuge before opening to ensure complete recovery of vial content; repeated freeze/thaw cycles and aliquoting can lead to a drop in titer
<b>Purification</b>	Affinity Chromatography (POROS CaptureSelect AAV9 Affinity Resin, Thermo Fisher Scientific)
<b>Storage</b>	Up to 2 weeks: 2-8°C; long term storage in aliquots at -80°C; avoid > 5 freeze/thaw cycles
<b>Intended use</b>	Research use only
<b>Application</b>	Dot blot, ELISA, WB

### Applications

<b>Dot Blot</b>	Depending on primary antibody and detection method
<b>ELISA</b>	As a positive control in ELISA, dilute in ASSB 1x (provided with PROGENs AAV9 ELISA) and analysis at least in duplicates is recommended
<b>Western Blot (WB)</b>	Depending on primary antibody and detection method

### Background

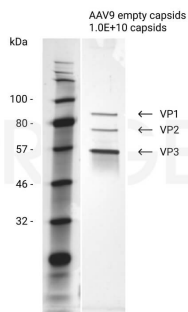
Our AAV9 empty capsids consist of fully assembled, empty AAV9 capsids and have a titer of > 5.0E+12 capsids/ml. Final concentrations are lot-specific and can be found on the corresponding vial. The AAV9 empty capsids are provided with titers above 5.0E+12 capsids/ml in a liquid formulation. Since the buffer does not contain any stabilizing proteins or dyes, the capsids can be used in various applications, including dot blot, western blot and ELISA. The lot-specific titers were assigned according to our internally established standard material\* using two different AAV9 ELISA (PRAAV9 and PRAAV9XP). Our comprehensive quality control ensures well-characterized capsid material which can be implemented as reference material in a variety of assays to prove the validity of the corresponding assay. PROGEN also provides empty capsid material for the AAV

serotypes 1, 2, 5, 6 and 8.\*Our internal standard material for each serotype was characterized according to the protocol described in our poster Developing Reliable AAV Standards for ELISA (available in the downloads tab). Data on the establishment of standard material for specific serotypes can be found as part of the performance data for the corresponding ELISAs or can be provided upon request.

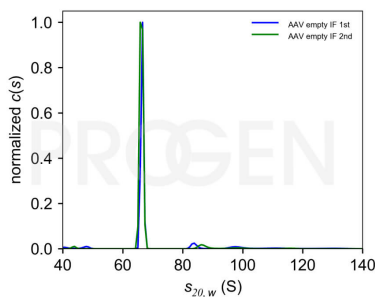
## Product images



AAV9 empty capsids



SDS PAGE with AAV9 empty capsids. The AAV9 VP1, VP2 and VP3 proteins were separated on a 10% SDS PAGE and visualized by Pierce Silver stain kit (Cat. No. 24612). Only VP1, VP2 and VP3 proteins in the correct stoichiometry of 1:1:10 are detectable indicating a purity of the AAV preparation of > 95%.



Analytical ultracentrifugation (AUC) of the AAV9 empty capsids shows a strong peak in the 65S range typical for empty capsid with a very small peak of 80-100S corresponding to DNA containing capsids. ~95% empty capsids, < 5% partially filled capsids, < 1% filled capsids. Capsids were centrifuged at 18000 rpm with 120 scans (1/min) and detected by interference.