

AAV Standards

Ensuring Comparability
for your AAV Processes



Safety: Ensure comparability of data across assays and labs

Comprehensive characterization: Precise titer/molar concentration

Quality control: Follows PROGEN's established QC standards

Easy-to-use: Integrate easily into a range of applications and available in liquid format

Off-the-shelf: Ready-to-use and available immediately

Distributed by:

CliniSciences Group

PROGEN

Secure Reliable Results with Established AAV Standards

The AAV gene therapy community is experiencing a rapid increase in the number of products entering clinical trials. One of the many obstacles laboratories and regulatory authorities are facing is the lack of suitable and widespread AAV reference material.

PROGEN's fully characterized AAV Standards are easy to implement solutions to monitor the validity and comparability of your assays.

- **Comparability:**
Ensure precise and consistent data across assays to monitor internal processes, meet corresponding FDA guidelines and assure patient safety.

- **Quality controlled:**
PROGEN follows a long-established QC protocol for the comprehensive characterization of AAV standards based on available ATCC reference material and internal gold standards.

- **Off-the-shelf:**
No need to wait. Our AAV Standards are ready-to-use and can be shipped immediately.

- **Easy-to-use:**
Easy to integrate into a wide range of applications and established workflows, due to different formats and a growing product portfolio.



Reference Standard Material – Full AAV Capsids

- **Industry-established standards:**
Containing the most commonly used and well-known combination of an eGFP transgene with a CMV promoter.

- **Comprehensive characterization:**
Provided with a precisely determined genome and capsid titer as well as an accurate full/empty ratio allowing precise and consistent characterization of your final product. Our full capsids have a filling grade of >70%.

- **Flexible use for a variety of applications:**
High virus titers > 1.0E+12 vg/ml and liquid formulation (PBS with 0.014% Tween, 1 mM MgCl₂ and 2.5 mM KCl) allow full capsids to be used as a reference material in a variety of applications.



Reference Standard Material – Empty AAV Capsids

- **Flexible use:**
High virus titers > 5.0E+12 capsids/ml and liquid formulation (PBS with 0.014% Tween, 1 mM MgCl₂ and 2.5 mM KCl) allow empty capsids to be used as a reference material in a variety of applications.

- **Comprehensive characterization:**
Following PROGEN's established QC protocol, our empty AAV capsids have been characterized by ELISA and DLS.

- **Reliably accurate:**
Through an established production process in the absence of a transgene, we can guarantee a filling grade of > 90% empty capsids.

Distributed by:

CliniSciences Group



AAV ELISA Controls

- Easy-to-use:**
ELISA controls are fully assembled empty AAV particles characterized according to the available ATCC reference standard material and our internal gold standard material.

- Accurate match:**
Available for a range of serotypes, corresponding to our AAV ELISA portfolio.

- Timesaver:**
AAV ELISA controls are optimized to use with PROGEN's AAV ELISAs, displaying the correct serotype-specific conformational epitopes and provided with defined capsid titers.

AAV VP Proteins

- Achieve high efficiency:**
A comprehensive monitoring of VP1, VP2, and VP3 protein concentrations and their molar ratios is an effective tool to optimize yields and potency early on in the production process.

- Pick and mix:**
Each protein is available individually or as a VP1-3 capsid protein set. You can create individual mixtures with a precise molar ratio (e.g. 1:1:10).

- Flexible use for a variety of applications:**
Provided concentrations are suitable for use in several applications including western blot, dot blot, capillary electrophoresis and SDS PAGE.



AAV Antibodies



AAV Purification



AAV ELISAs



AAV Kits

Distributed by:

CliniSciences Group



Making gene therapy better. Together.

Our commitment to scientists is to support them in making new scientific discoveries and groundbreaking research within the life sciences and gene therapy. It is our underlying mission, to help progress new therapies safely, quickly and affordably, so together we can provide solutions to people suffering from poor health and affected by disease every day.

PROGEN is made up of a team of experts within AAV and the life sciences and is partnered with gene therapy experts worldwide. We are more than just a manufacturer of antibodies, proteins and ELISA kits. We strive to understand what scientists need, so we can create solutions and ultimately deliver high quality antibodies

and exclusive AAV products, which solve your research challenges within academia, biotech and pharma, and ensure PROGEN can continue to be a trusted and reliable partner.

Distributed by:

CliniSciences Group

CliniSciences Group

Austria

Company: CliniSciences GmbH
Address: Sternwartestrasse 76, A-1180
Wien - Austria
Telephone: +43 720 115 580
Fax: +43 720 115 577
Email: oesterreich@clinisciences.com
Web: <https://www.clinisciences.com>



Belgium

Company: CliniSciences S.R.L
Address: Avenue Stalingrad 52, 1000
Brussels - Belgium
Telephone: +32 2 31 50 800
Fax: +32 2 31 50 801
Email: belgium@clinisciences.com
Web: <https://www.clinisciences.com>



Denmark

Company: CliniSciences ApS
Address: Oesterbrogade 226, st. 1,
Copenhagen, 2100 - Denmark
Telephone: +45 89 888 349
Fax: +45 89 884 064
Email: denmark@clinisciences.com
Web: <https://www.clinisciences.com>



Finland

Company: CliniSciences ApS
Address: Oesterbrogade 226, st. 1,
Copenhagen, 2100 - Denmark
Telephone: +45 89 888 349
Fax: +45 89 884 064
Email: suomi@clinisciences.com
Web: <https://www.clinisciences.com>



France

Company: CliniSciences S.A.S
Address: 74 Rue des Suisses, 92000
Nanterre- France
Telephone: +33 9 77 40 09 09
Fax: +33 9 77 40 10 11
Email: info@clinisciences.com
Web: <https://www.clinisciences.com>



Germany

Company: Biotrend Chemikalien GmbH
Address: Wilhelm-Mauser-Str. 41-43,
50827 Köln - Germany
Telephone: +49 221 9498 320
Fax: +49 221 9498 325
Email: info@biotrend.com
Web: <https://www.biotrend.com>



Iceland

Company: CliniSciences ApS
Address: Oesterbrogade 226, st. 1,
Copenhagen, 2100 - Denmark
Telephone: +45 89 888 349
Fax: +45 89 884 064
Email: island@clinisciences.com
Web: <https://www.clinisciences.com>



Ireland

Company: CliniSciences Limited
Address: Ground Floor, 71 lower Baggot street
Dublin D02 P593 - Ireland
Telephone: +353 1 6971 146
Fax: +353 1 6971 147
Email: ireland@clinisciences.com
Web: <https://www.clinisciences.com>



Italy

Company: CliniSciences S.r.l
Address: Via Maremmana inferiore 378
Roma 00012 Guidonia Montecelio - Italy
Telephone: +39 06 94 80 56 71
Fax: +39 06 94 80 00 21
Email: italia@clinisciences.com
Web: <https://www.clinisciences.com>



Netherlands

Company: CliniSciences B.V.
Address: Kraijenhoffstraat 137A,
1018RG Amsterdam, - Netherlands
Telephone: +31 85 2082 351
Fax: +31 85 2082 353
Email: nederland@clinisciences.com
Web: <https://www.clinisciences.com>



Norway

Company: CliniSciences AS
Address: c/o MerVerdi Munkerudtunet 10
1164 Oslo - Norway
Telephone: +47 21 988 882
Email: norge@clinisciences.com
Web: <https://www.clinisciences.com>



Poland

Company: CliniSciences sp.Z.o.o.
Address: ul. Rotmistrza Witolda Pileckiego 67
lok. 200 - 02-781 Warszawa -Poland
Telephone: +48 22 307 0535
Fax: +48 22 307 0532
Email: polska@clinisciences.com
Web: <https://www.clinisciences.com>



Portugal

Company: Quimigen Unipessoal LDA
Address: Rua Almada Negreiros, Lote 5, Loja 14,
2615-275 Alverca Do Ribatejo - Portugal
Telephone: +351 30 8808 050
Fax: +351 30 8808 052
Email: info@quimigen.com
Web: <https://www.quimigen.pt>



Spain

Company: CliniSciences Lab Solutions
Address: C/ Hermanos del Moral 13
(Bajo E), 28019, Madrid - Spain
Telephone: +34 916 750 700
Fax: +34 91 269 40 74
Email: espana@clinisciences.com
Web: <https://www.clinisciences.com>



Sweden

Company: CliniSciences ApS
Address: Oesterbrogade 226, st. 1,
Copenhagen, 2100 - Denmark
Telephone: +45 89 888 349
Fax: +45 89 884 064
Email: sverige@clinisciences.com
Web: <https://www.clinisciences.com>



Switzerland

Company: CliniSciences AG
Address: Fracht Ost Flughafen Kloten
CH-8058 Zürich - Switzerland
Telephone: +41 (044) 805 76 81
Fax: +41 (044) 805 76 75
Email: switzerland@clinisciences.com
Web: <https://www.clinisciences.com>



UK

Company: CliniSciences Limited
Address: 11 Progress Business center, Whittle
Parkway, SL1 6DQ Slough- United Kingdom
Telephone: +44 (0)1753 866 511
or +44 (0) 330 684 0982
Fax: +44 (0)1753 208 899
Email: uk@clinisciences.com
Web: <https://www.clinisciences.com>



USA

Company: Biotrend Chemicals LLC
Address: c/o Carr Riggs Ingram,
500 Grand Boulevard, Suite 210 Miramar
Beach, FL 32550- USA
Telephone: +1 850 650 7790
Fax: +1 850 650 4383
Email: info@biotrend-usa.com
Web: <https://www.biotrend-usa.com>

