AAV8 Titration ELISA Kit

Sample

cell culture supernatants, purified virus preparations

Species Reactivity

N/A

Intended Use

Enzyme-linked immunosorbent assay (ELISA) for the quantitative determination of AAV serotype 8 particles in cell culture supernatants and purified virus preparations.

Contents of Kit

1.Microtiter Plate, 12 × 8-well-strips, coated with mouse monoclonal antibody to AAV8 in aluminum bag with desiccant, 1 plate. Ready- to-use.
2.AAV8 standard, lyophilized, 3 vials. Reconstitute before use.
3.Assay Buffer 20×, 50 ml. Dilute before use.
4.Anti-AAV8 Antibody, 12ml. Ready- to-use.
5.Anti-Human IgG Fc Conjugate, 12ml. Ready- to-use.
6.TMB Substrate, 6 ml × 2. Ready-to-use.
7.Stop Solution, 7 ml. Ready-to-use.

Storage

Store the test kit and components at 2-8°C. The unopened reagents are stable at 2-8°C until the indicated expiry date.

Detection Range

0-2.65E+09vg/ml

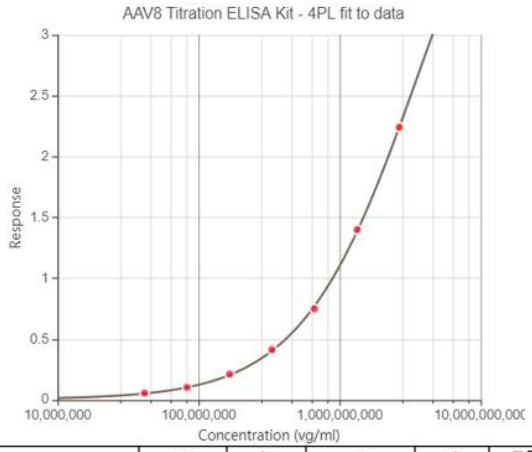
General Description

Adeno-associated viruses (AAV) are non-pathogenic ssDNA viruses, which are subject of intense studies as viral vectors for gene therapy. The virus transduces a variety of dividing and non-dividing cells showing long-term gene expression with low cellular immune response. AAV has been used in several clinical trials (e.g. FIX, CFTR, Parkinson's, Canavan disease) showing no serious vector-related adverse effects. Methods for the characterization of AAV preparations currently include titration ELISA, qPCR, ddPCR, DNA dot blot,

determination of transducing units, infectious center assay, SDS-PAGE or electron microscopy.
Immunotitration by Creative Diagnostics' AAV8 Titration ELISA offers a fast, sensitive and reproducible method for titration of intact AAV8 wild-type virions, AAV8 recombinant virions or assembled and intact empty AAV8 capsids.

Standard Curve

AAV8 Capsids vg/mL	OD450-620nm		
	(1)	(2)	Average
2.65E+09	2.4463	2.3357	2.3910
1.33E+09	1.5309	1.5688	1.5499
6.63E+08	0.8904	0.9070	0.8987
3.31E+08	0.5704	0.5562	0.5633
1.66E+08	0.3717	0.3535	0.3626
8.28E+07	0.2557	0.2506	0.2532
4.14E+07	0.2057	0.2067	0.2062
0.00E+00	0.1540	0.1433	0.1487



$y = d + \frac{a-d}{1+(\frac{x}{c})^b}$	a	b	c	d	R^2
	0	1.05	3.64E+09	5.37	1