

Gator[®] High Sensitivity (HS) AAV Kit for Quantitation of AAV Serotypes

Gator[®] High Sensitivity (HS) AAV Kit uses nanobody-based biosensors that quantify different serotypes of adeno-associated virus (AAV) in crude lysates, column eluates, cell lysates, and cell culture supernatants. It is ideal for viral vector development from the harvest to final product quality control stages. The kit offers a dynamic range comparable to enzyme-linked immunosorbent assay (ELISA) along with the automation and low hands-on time of biolayer interferometry (BLI).

PRODUCT INFORMATION

Part Number

350003

Includes

- HS AAV probes (96 probes/tray)
- HS AAV Detection Solution
- AAV Amplification Solution
- AAV Substrate Solution
- AAV Substrate Diluent
- Q Buffer

PERFORMANCE SUMMARY

Dynamic Range

$5 \times 10^6 - 5 \times 10^{10}$ vp/mL

Assay Run Time

8 samples in 35 minutes

24 samples in 99 minutes

Crude Sample Tolerant

Yes

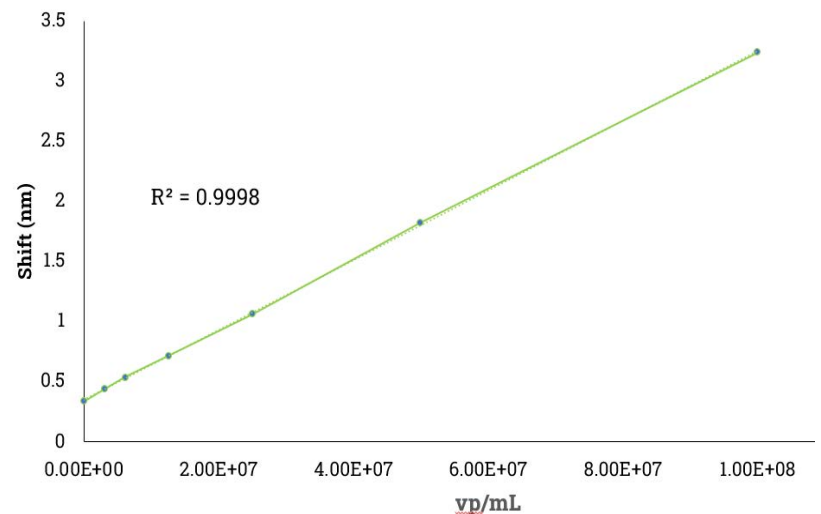
Regeneration

No

KEY BENEFITS

- Sensitivity comparable to ELISA
- Fully automated including washes
- Crude sample tolerant

DYNAMIC RANGE



The graph shows the dynamic range for AAV5 using the HS AAV kit. The concentration is based on end point nanometer shift.

ACCURACY AND PRECISION

Conc (vp/mL)	Signal (nm Shift)	Calc Conc (vp/mL)	% Recovery	% CV (n=3)
1.00E+08	8.2415	9.99E+07	99.10	6.16
5.00E+07	1.1050	5.07E+07	98.53	5.28
2.50E+07	0.1257	2.50E+07	99.80	5.38
1.25E+07	0.0186	1.27E+07	98.80	3.91
6.25E+06	0.0029	6.99E+06	88.16	2.02

The percent recovery for AAV5 concentrations is more than 85% in Q Buffer. The kit also shows high precision with a percent coefficient of variation (%CV) of less than 10%.

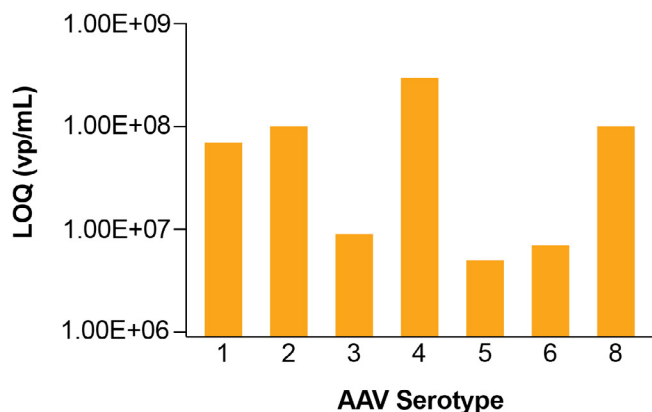


RECOVERY IN CRUDE SAMPLES

Conc (vp/mL)	Calc Conc (vp/mL)	% Recovery	% CV (n=3)
1.06E+08	8.73E+07	82.22	2.83
5.33E+07	4.27E+07	80.18	2.19
1.05E+07	9.38E+06	88.92	7.61

The HS AAV Kit is compatible with crude matrices such as cell lysates and media. The table above shows the signal (nm shift), % CV, and % recovery for AAV5 in HEK 293-T cell lysate diluted 1:10 in Q Buffer.

SEROTYPE COMPATIBILITY



LoQ for different AAV serotypes. All serotypes were purchased from www.virovek.com.

