Literature Reference

LR2022021043

Titer measurement of HIV-1 envelope trimeric glycoprotein in cell culture media by a new tandem ion exchange and size exclusion chromatography (IEC-SEC) method.

Trimer separation from the rest of the cell/HCP was achieved via WAX-SEC tandem chromatography

Column	SRT SEC-300, 5um, 300 A 7.8 x 150mm Part Number: <u>215300-7815</u>		1.8E4	a
Mobile Phase	MPA: 250 mM sodium phosphate (pH 6.0) MPB:1 M sodium chloride (NaCl)		9.0E3	
Injection	50uL	sity (EU)	1.8E4	b
Instrument	UHPLC		9.0E3	
Detection	FLD - 277 nm and 344 nm	e Inten	0.0	
Length of Sample	~2500-3000 nucleotides	oreso	DE3- C	
Molecular Weight of Sample	350kDa	Flu	B 1.5E3 0.0 3.0E3 d	
Sample Prep	Filtered 0.2um cellulose acetate	1.5E3-		
			0.0	
				2 4 6 8 10 12 14 16 18 Retention Time (min)

Fig. 2. Representative IEC-SEC chromatograms of (a) 2× PBS; (b) CHO-DG44 mock media (negative control); (c) HIV Env trimer spiked into 2× PBS (positive control, final: 100 µg/mL); (d) HIV Env trimer spiked into CHO-DG44 mock cell culture media (final: 100 µg/mL).



National Institute of Health (NIH)

Yang, Gengcheng, et al. "Titer measurement of HIV-1 envelope trimeric glycoprotein in cell culture media by a new tandem ion exchange and size exclusion chromatography (IEC-SEC) method." Vaccine 37.24 (2019): 3142-3145.

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