PARTICLE METRIX

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Electrophoresis & Brownian Motion
Video Analysis
Laser Scattering Microscopy

URAT
BioNest, suit#19, University of hyderabad
Video Operator: Admin

Operator (Report): Admin | Phone: 7801092351 | eMail: adminoffice@uratpx.com

Sample Parameters
Sample Name: HEK_100kDa_Final_scatte
Sample Info 1:
Sample Info 2:
Sample Info 3:
Electrolyte: WATER
Temperature: 25.20 °C sensed
pH 7.0 entered
Conductivity: 47.00 µS/cm sensed

Instrument Parameters
Laser Wavelength: 488 nm
Filter Wavelength: Scatter
Sensitivity: 80.0; Shutter: 100
Frame Rate: 30 fps; Video Resolution: medium

SOP: EV_488
Size Distribution, 3 Cycles, 11 Positions
Description: EV/ 488nm laser

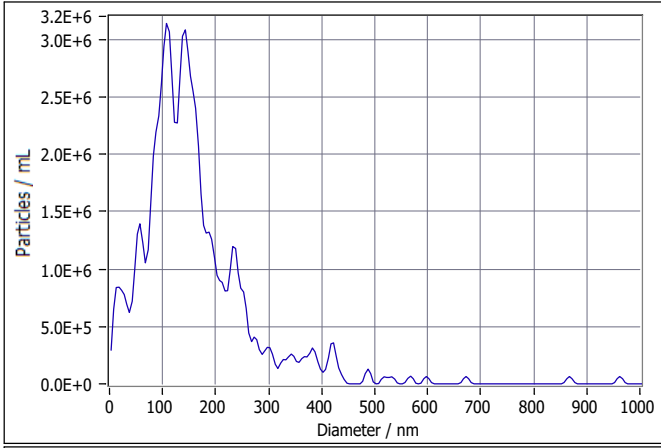
Result (sizes in nm)

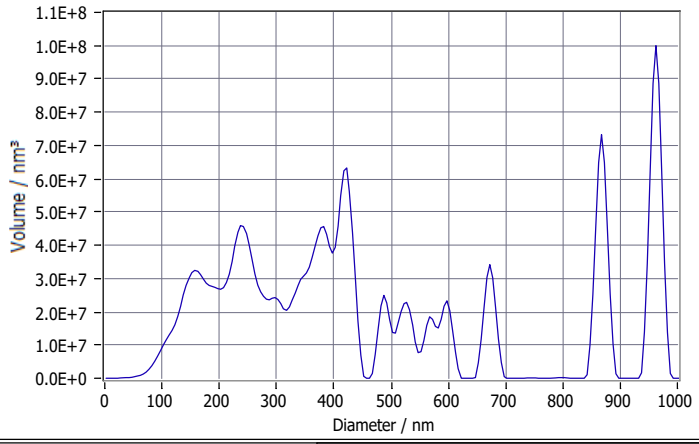
	Number	Concentration	Volume
Median (X50)	136.9	136.9	4304.5
StdDev	220.3	220.1	1183.4

Concentration: 9.2E+7 Particles / mL
Dilution Factor: 500
Concentration Correction Factor: 1.00000
Original Concentration: 4.6E+10 Particles / mL

Quality
Average Counted Particles per Frame: 213
Number of Traced Particles: 581
1 Positions Removed for Analysis (0.85 automatically)

Analysis Parameters
Max Area 1000, Min Area 10, Min Bright. 30, nm/Class 5, TL 15



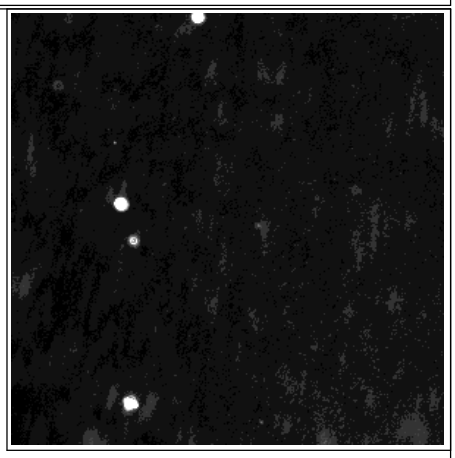


Peak Analysis (Concentration)

Diameter / nm	Particles/mL	FWHM / nm	Percentage
108.0	3.1E+6	40.5	37.0
143.8	3.0E+6	41.0	36.5
235.2	1.1E+6	44.1	13.9
20.4	8.4E+5	20.2	4.5
420.4	3.2E+5	23.7	4.1

X Values (all sizes are given in nm)

	Number	Concentration	Volume
X10	54.8	54.8	2038.1
X50	136.9	136.9	4304.5
X90	277.2	277.3	4306.9
Span	1.6	1.6	0.5
Mean	171.2	171.2	3779.5
StdDev	220.3	220.1	1183.4



Comment

(Signature)

Analyzed Video: Z:\Aadhi NTA\281125\Vesi520_HEK_TFF_100kDa\20251128_0012_HEK_100kDa_Final_scatter_size_488.avi

Experiment: 2025-11-28 12:39 ZetaView S/N 24-1152, Software ZetaView (version 8.06.01 SP1)

Report: 2025-11-28 12:41 Software ZetaView (version 8.06.01 SP1)