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_Permeate_500
Sample Info 1:
Sample Info 2:
Sample Info 3:
Electrolyte: WATER
Temperature: 25.68 °C sensed
pH 7.0 entered
Conductivity: 41.00 µS/cm sensed

Instrument Parameters
Laser Wavelength: 488 nm
Filter Wavelength: 500 nm
Sensitivity: 95.0; Shutter: 100
Frame Rate: 30 fps; Video Resolution: low

SOP: EV_488_F500
Size Distribution, 3 Cycles, 11 Positions
Description: EV/ 488nm laser, fluorescence mode 500nm filter

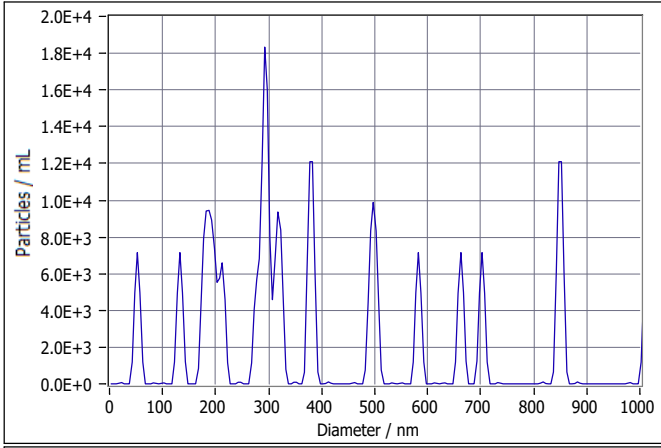
Result (sizes in nm)

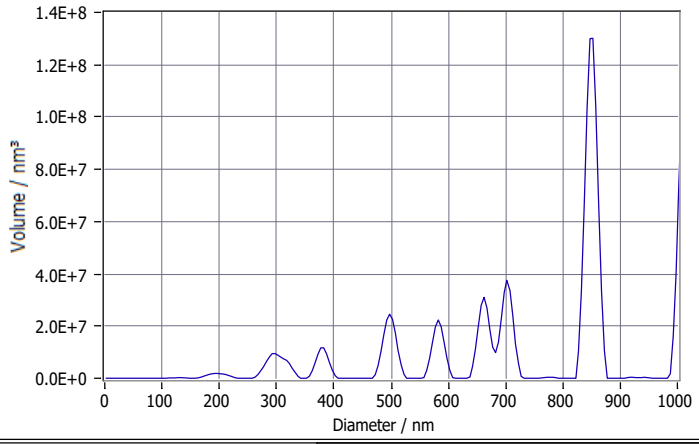
	Number	Concentration	Volume
Median (X50)	320.0	320.0	851.7
StdDev	292.0	285.6	231.1

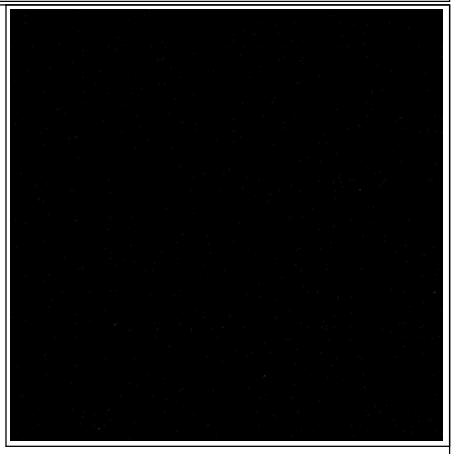
Concentration: 4.0E+5 Particles / mL
Dilution Factor: 500
Concentration Correction Factor: 1.00000
Original Concentration: 2.0E+8 Particles / mL

Quality
Average Counted Particles per Frame: 1
Number of Traced Particles: 23

Analysis Parameters
Max Area 1000, Min Area 10, Min Bright. 30, nm/Class 5, TL 7







Peak Analysis (Concentration)

Diameter / nm	Particles/mL	FWHM / nm	Percentage
293.7	1.5E+4	23.9	24.5
187.7	9.5E+3	42.1	16.5
850.0	1.0E+4	18.3	9.0
380.0	1.0E+4	18.3	8.9
497.9	9.2E+3	20.1	8.6

X Values (all sizes are given in nm)

	Number	Concentration	Volume
X10	174.0	174.0	500.6
X50	320.0	320.0	851.7
X90	851.0	851.0	1110.7
Span	2.1	2.1	0.7
Mean	447.1	447.1	874.5
StdDev	292.0	285.6	231.1

Comment

(Signature)

Analyzed Video: Z:\Aadhi NTA\281125\Vesi520_HEK_TFF_100kDa\20251128_0015_HEK_100kDa_Permeate_500_size_488F500.avi