ガーデンシャワー（JGD-SF1、YA-GSH2026）

■UFB発生数確認試験

１．UFB測定機器

NanoSight NS300



２．試験方法・測定方法

① 試験水による配管及びポンプ内の洗浄（洗浄方法として一晩（１５時間）水道水（限外ろ過フィルタあり）による通水洗浄を行った後、採水し測定を実施、その後に水道水（限外ろ過フィルタあり）にて1時間通水洗浄を行った後に採水し、測定を実施。
2測定間の測定にて測定値に有意差が見られないことを確認しコンタミ除去の判断を行った。）

② 水温：常温

③ 採水方法：ブランク水（サンプル水と同経路におけるシャワーホース吐水部から採水）、サンプル水共に5Lの受け容器に3分間吐水し、容器内の水が複数回入れ替える。吐水後スターラーで撹拌する。採水用小ビンを洗浄後にスポイトでゆっくり採水する。

④ 測定機器内の残水を取り除いた後、測定する

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3．測定結果

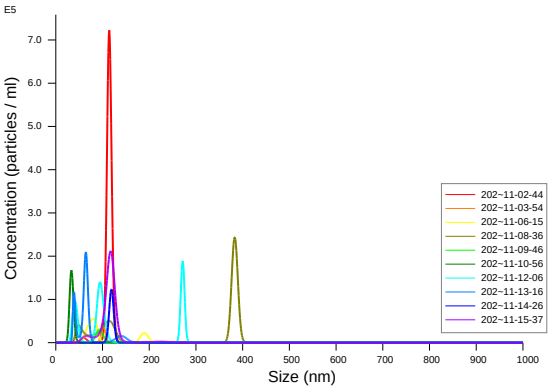
測定日	2025/8/22
純水 Blank個数濃度 (個/cc)	3,750,000
ガーデンシャワー個数濃度 (個/cc)	8,030,000
ブランク数補正後個数濃度 (個/cc)	4,280,000
平均粒子径 (nm)	141.7

ガーデンシャワー（JGD-SF1、YA-GSH2026）

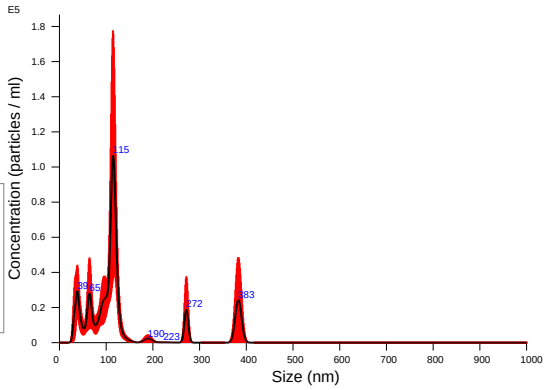
■純水 Blank

NANOSIGHT

20250822-01-blank 2025-08-22 11-01-57



FTLA Concentration / Size graph for Experiment:
20250822-01-blank 2025-08-22 11-01-57



Averaged FTLA Concentration / Size for Experiment:
20250822-01-blank 2025-08-22 11-01-57
Error bars indicate + / -1 standard error of the mean

Included Files

20250822-01-blank 2025-08-22 11-02-44, 20250822-01-blank 2025-08-22 11-03-54, 20250822-01-blank 2025-08-22 11-06-15, 20250822-01-blank 2025-08-22 11-08-36, 20250822-01-blank 2025-08-22 11-09-46, 20250822-01-blank 2025-08-22 11-10-56, 20250822-01-blank 2025-08-22 11-12-06, 20250822-01-blank 2025-08-22 11-13-16, 20250822-01-blank 2025-08-22 11-14-26, 20250822-01-blank 2025-08-22 11-15-37.

Details

NTA Version:	NTA 3.4 Build 3.4.003
Script Used:	SOP Standard Measurement 11-01-57AM 22~
Time Captured:	11:01:57 22/08/2025
Operator:	
Pre-treatment:	
Sample Name:	20250822-01-blank
Diluent:	
Remarks:	

Capture Settings

Camera Type:	sCMOS
Laser Type:	Blue405
Camera Level:	15
Slider Shutter:	1206
Slider Gain:	245
FPS	25.0
Number of Frames:	1498
Temperature:	23.4 - 23.7 °C
Viscosity:	(Water) 0.916 - 0.922 cP
Dilution factor:	1 x 10e0
Syringe Pump Speed:	100

Analysis Settings

Detect Threshold:	4
Blur Size:	Auto
Max Jump Distance:	Auto: 15.1 pix

Results

Stats: Merged Data

Mean:	136.7 nm
Mode:	115.0 nm
SD:	98.7 nm
D10:	45.9 nm
D50:	112.4 nm
D90:	373.6 nm

Stats: Mean +/- Standard Error

Mean:	115.4 +/- 18.7 nm
Mode:	137.8 +/- 33.7 nm
SD:	37.2 +/- 14.9 nm
D10:	72.9 +/- 9.5 nm
D50:	119.8 +/- 29.7 nm
D90:	161.1 +/- 31.9 nm
Concentration:	3.75e+06 +/- 9.53e+05 particles/ml
	0.2 +/- 0.1 particles/frame
	0.4 +/- 0.1 centres/frame

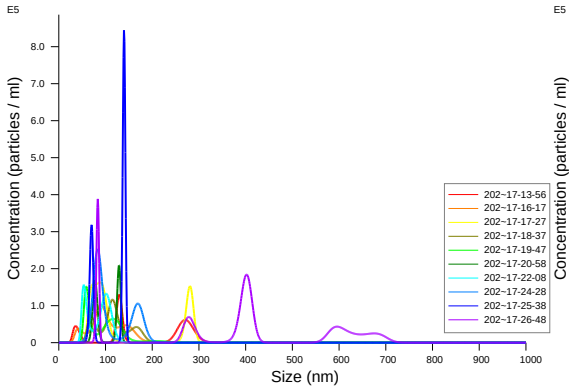
個数濃度（個/cc）：3,750,000±953,000

ガーデンシャワー（JGD-SF1、YA-GSH2026）

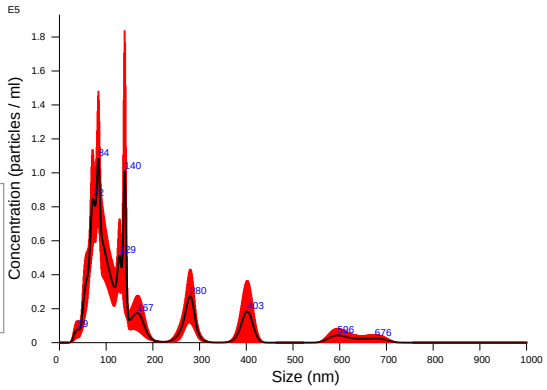
■ガーデンシャワー

NANOSIGHT

20250822-10-JGD-SF1-shower15Lmin 2025-08-22 17-13-10



FTLA Concentration / Size graph for Experiment:
20250822-10-JGD-SF1-shower15Lmin 2025-08-22 17-13-10



Averaged FTLA Concentration / Size for Experiment:
20250822-10-JGD-SF1-shower15Lmin 2025-08-22 17-13-10
Error bars indicate + / -1 standard error of the mean

Included Files

20250822-10-JGD-SF1-shower15Lmin 2025-08-22 17-13-56,
20250822-10-JGD-SF1-shower15Lmin 2025-08-22 17-16-17,
20250822-10-JGD-SF1-shower15Lmin 2025-08-22 17-17-27,
20250822-10-JGD-SF1-shower15Lmin 2025-08-22 17-18-37,
20250822-10-JGD-SF1-shower15Lmin 2025-08-22 17-19-47,
20250822-10-JGD-SF1-shower15Lmin 2025-08-22 17-20-58,
Limited file list. Full list printed on Page 2.

Details

NTA Version:	NTA 3.4 Build 3.4.003
Script Used:	SOP Standard Measurement 05-13-10PM 22~
Time Captured:	17:13:10 22/08/2025
Operator:	
Pre-treatment:	
Sample Name:	20250822-10-JGD-SF1-shower15Lmin
Diluent:	
Remarks:	

Capture Settings

Camera Type:	sCMOS
Laser Type:	Blue405
Camera Level:	15
Slider Shutter:	1206
Slider Gain:	245
FPS	25.0
Number of Frames:	1498
Temperature:	23.7 - 23.9 ºC
Viscosity:	(Water) 0.911 - 0.917 cP
Dilution factor:	1 x 10e0
Syringe Pump Speed:	100

Analysis Settings

Detect Threshold:	4
Blur Size:	Auto
Max Jump Distance:	Auto: 12.3 - 15.1 pix

Results

Stats: Merged Data

Mean:	167.8 nm
Mode:	83.2 nm
SD:	141.6 nm
D10:	66.3 nm
D50:	114.8 nm
D90:	394.5 nm

Stats: Mean +/- Standard Error

Mean:	144.7 +/- 28.0 nm
Mode:	97.1 +/- 9.5 nm
SD:	60.4 +/- 16.2 nm
D10:	63.8 +/- 4.0 nm
D50:	135.3 +/- 29.8 nm
D90:	223.8 +/- 50.3 nm
Concentration:	8.03e+06 +/- 9.90e+05 particles/ml
	0.4 +/- 0.1 particles/frame
	0.7 +/- 0.1 centres/frame

個数濃度（個/cc）：8,030,000±990,000