

Created by: Olsson, Daniel

Created at: 10/23/2016 6:27:38 PM

General

Measurement name	Xzero Gold diluted 100 x pre filtration	User	ANTON-PAAR\Daniel.Olsson
Method		Time	9/5/2016 2:43:18 PM
Status	Succeeded		

Settings

Measurement cell	Disposable	Equilibration time	0h 25m 00s
Angle	Automatic	Analysis model	General
Target Temperature	25.0 °C	Cumulant model	Advanced

Quality

Quality mode	Automatic	Measurement time	0h 00m 10s
Number of runs	60		

Filter

Attenuation mode	Automatic	Attenuation	0
-------------------------	-----------	--------------------	---

Focus

Focus mode	Automatic	Focus position	0 mm
-------------------	-----------	-----------------------	------

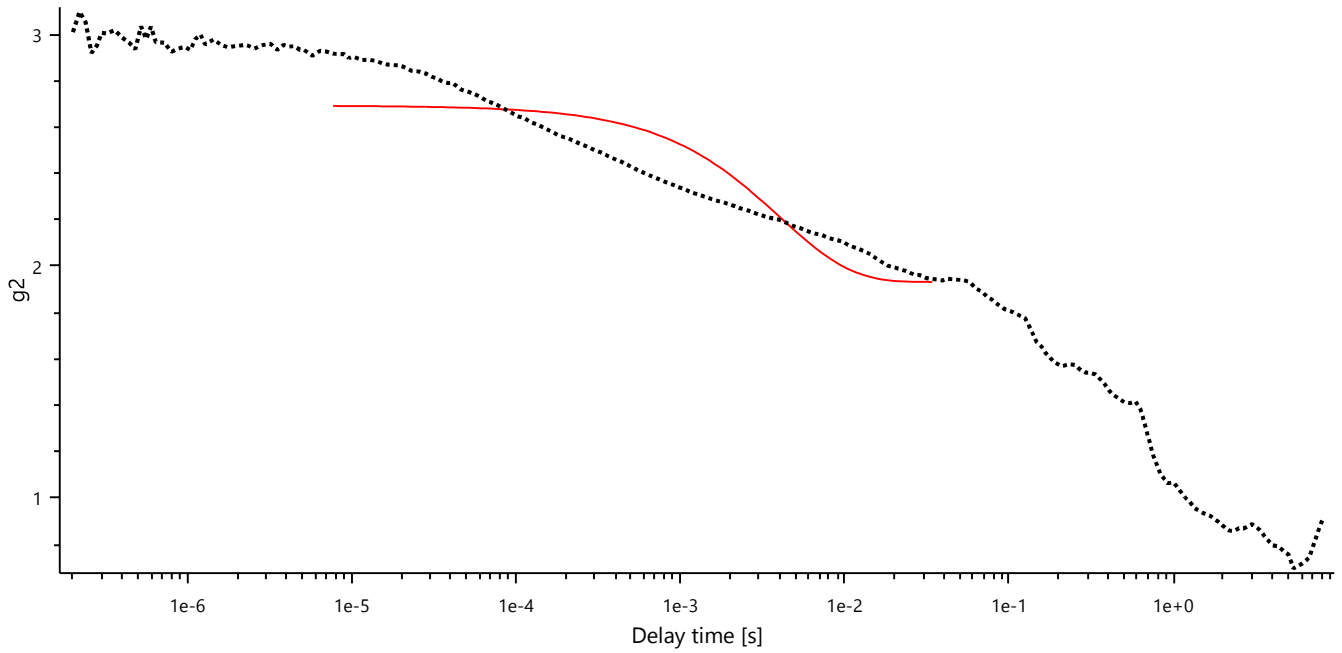
Material

Name	Gold nanoparticles	Refractive index	0.2705
Absorption	0.0010		

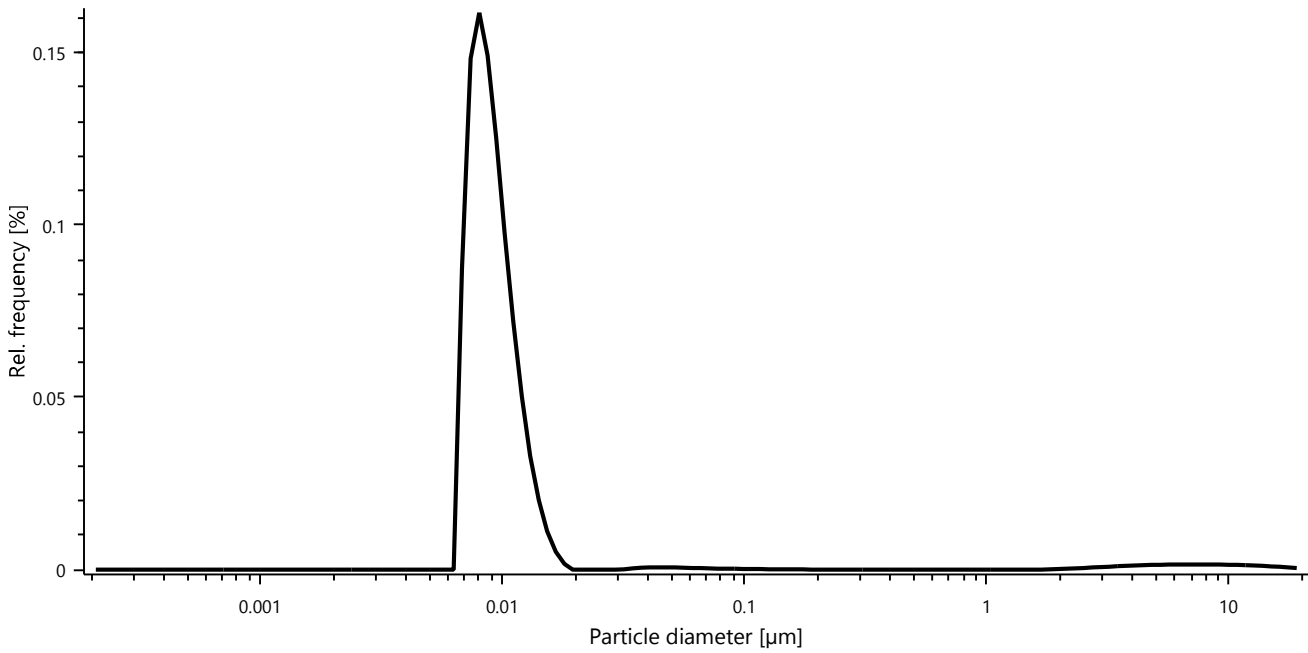
Solvent

Name	Water	Refractive index	1.3303
Viscosity	0.0008903 Pa.s		

Correlation function



Particle size distribution by volume



Particle size distribution peaks

Size distribution	Peak 1 [µm]	Peak 2 [µm]	Peak 3 [µm]
Intensity	2.791011	0.010648	0.104239
Volume	0.009211	NaN	NaN
Number	0.008303	NaN	NaN

Created by: Olsson, Daniel

Created at: 10/23/2016 6:27:38 PM

Data output

Hydrodynamic diameter	1.26811 μm	Polydispersity index	36.7 %
Intercept $g1^2$	0.7611	Mean intensity	40.3 kcounts/s
Filter optical density	0.000	Baseline	1.931
Focus position	-0.6 mm	Angle used	Side scatter
Processed runs	10	Transmittance	85.9 %

Undersize values

Size distribution	D10 [μm]	D50 [μm]	D90 [μm]
Intensity	0.011705	2.912009	8.535463
Volume	0.006867	0.008483	0.012273
Number	0.003881	0.007639	0.009834

Instrument information

Serial number	81962686	Laser wavelength	658 nm
----------------------	----------	-------------------------	--------

Comment100 + mL 12.1 mg/l 2 nm monodisperse in 12 l H₂O before filtration