

Size Distribution Report by Volume

v2.0



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Sample Details

Sample Name: 1.79% Au/CeO₂_0.7 mg 1

SOP Name: mansettings.nano

General Notes:

File Name: 1.79% Au/CeO₂_0.7 mg.dts **Dispersant Name:** Water

Record Number: 1 **Dispersant RI:** 1,330

Material RI: 1,36 **Viscosity (cP):** 0,8872

Material Absorbtion: 0,01 **Measurement Date and Time:** jueves, 27 de octubre de ...

System

Temperature (°C): 25,0

Duration Used (s): 70

Count Rate (kcps): 170,3

Measurement Position (mm): 4,65

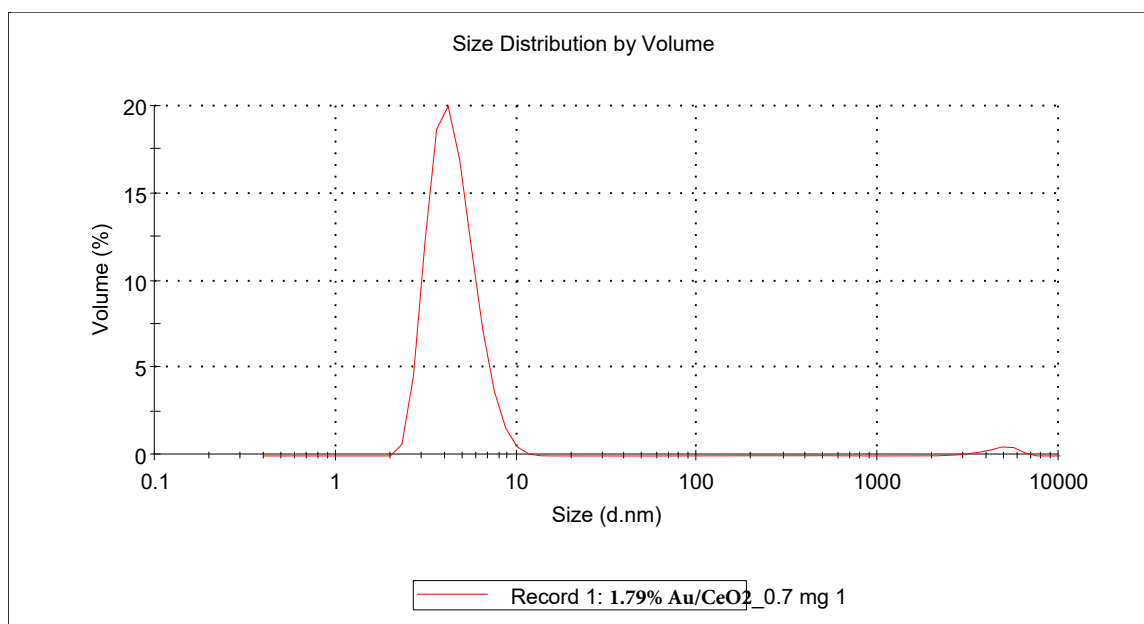
Cell Description: Disposable sizing cuvette

Attenuator: 8

Results

		Diam. (nm)	% Volume	Width (nm)
Z-Average (d.nm): 487,9	Peak 1:	410,7	0,1	203,3
Pdl: 0,578	Peak 2:	4678	1,9	1015
Intercept: 0,179	Peak 3:	4,562	98,0	1,385

Result quality **Refer to quality report**



Zeta Potential Report

v2.2



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Sample Details

Sample Name: 1.79% AuCeO₂-H₂O_AVG
SOP Name: 1.79% AuCeO₂-H₂O.sop
General Notes: Average result created from record number(s): 5 12 13

File Name: 1.79% Au/CeO₂_0.7 mg.dts
Record Number: 16
Date and Time: jueves, 27 de octubre de 2022...
Dispersant Name: Water
Dispersant RI: 1,330
Viscosity (cP): 0,8872
Dispersant Dielectric Constant: 78,5

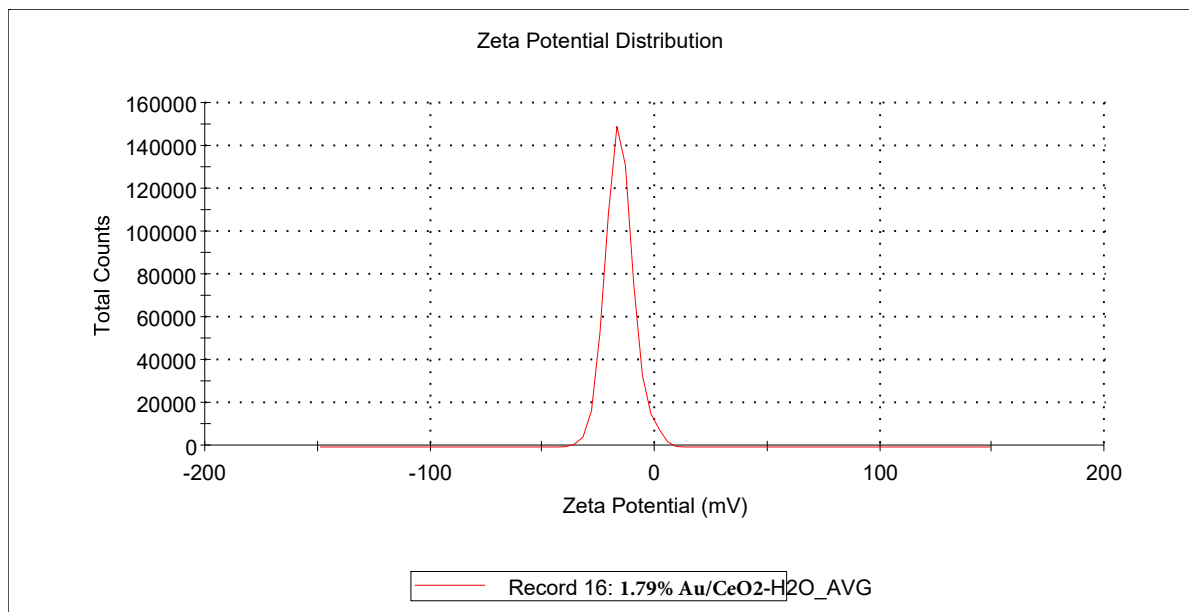
System

Temperature (°C): 25,0
Count Rate (kcps): 87,6
Cell Description: Clear disposable zeta cell
Zeta Runs: 15
Measurement Position (mm): 2,00
Attenuator: 11

Results

	Mean (mV)	Area (%)	Width (mV)
Zeta Potential (mV): -17,1	Peak 1: -15,7	100,0	6,50
Zeta Deviation (mV): 5,70	Peak 2: 0,00	0,0	0,00
Conductivity (mS/cm): 0,00350	Peak 3: 0,00	0,0	0,00

Result quality Good



Zeta Potential Report

v2.2



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Sample Details

Sample Name: 0.82% Au/CeO₂_0.7 mg_AVG

SOP Name: 0.82% Au/CeO₂-H₂O.sop

General Notes: Average result created from record number(s): 9 11 13

File Name: 0.82% Au/CeO ₂ _0.7 mg.dts	Dispersant Name: Water
Record Number: 21	Dispersant RI: 1,330
Date and Time: jueves, 27 de octubre de 2022...	Viscosity (cP): 0,8872
Dispersant Dielectric Constant: 78,5	

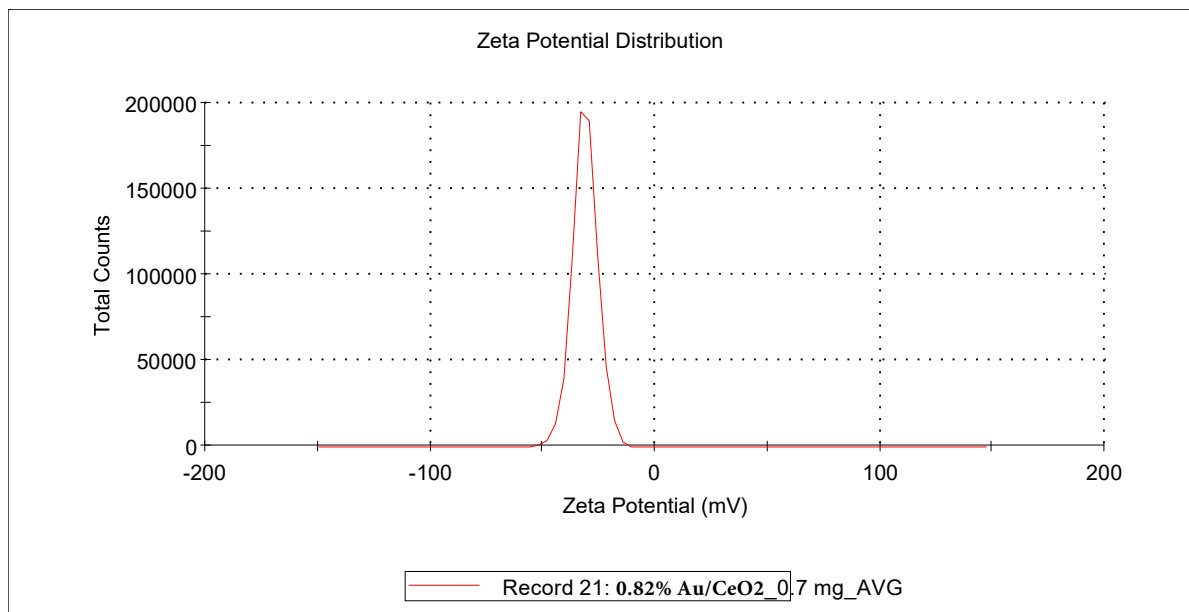
System

Temperature (°C): 25,0	Zeta Runs: 14
Count Rate (kcps): 15,0	Measurement Position (mm): 2,00
Cell Description: Clear disposable zeta cell	Attenuator: 11

Results

	Mean (mV)	Area (%)	Width (mV)
Zeta Potential (mV): -31,9	Peak 1: -31,1	100,0	5,66
Zeta Deviation (mV): 5,99	Peak 2: 0,00	0,0	0,00
Conductivity (mS/cm): 0,00213	Peak 3: 0,00	0,0	0,00

Result quality Good



Size Distribution Report by Volume

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Sample Details

Sample Name: 0.82% Au/CeO₂_0.7 mg 3

SOP Name: 0.82% Au/CeO₂-H₂O.sop

General Notes:

File Name: 0.82% Au/CeO ₂ _0.7 mg.dts	Dispersant Name: Water
Record Number: 3	Dispersant RI: 1,330
Material RI: 1,83	Viscosity (cP): 0,8872
Material Absorbtion: 0,01	Measurement Date and Time: jueves, 27 de octubre de ...

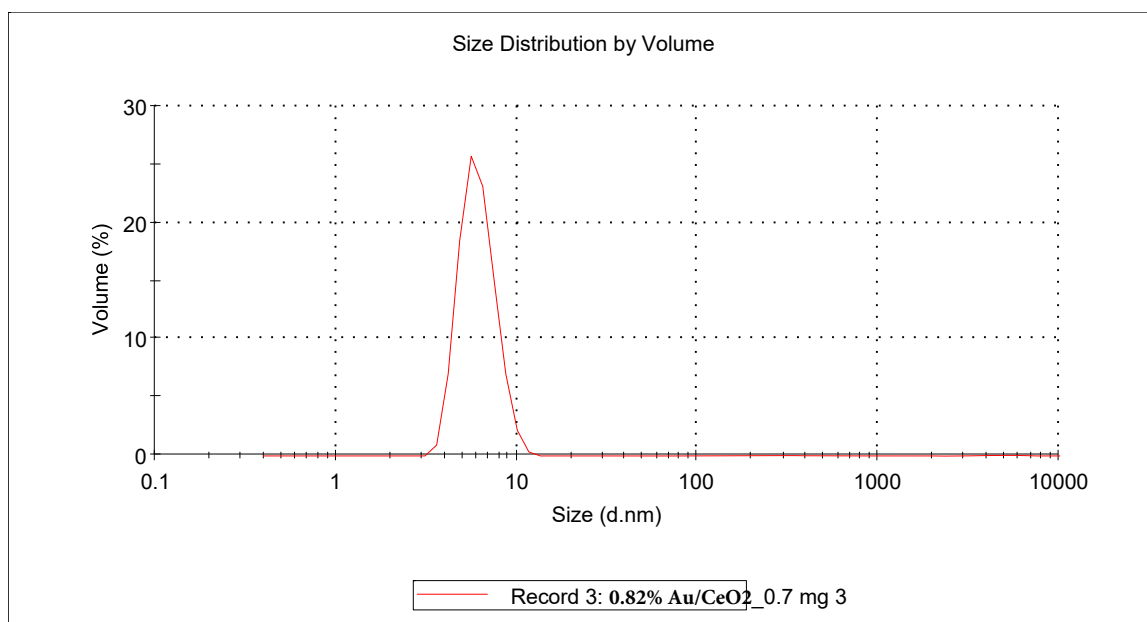
System

Temperature (°C): 25,0	Duration Used (s): 70
Count Rate (kcps): 33,7	Measurement Position (mm): 4,65
Cell Description: Disposable sizing cuvette	Attenuator: 10

Results

		Diam. (nm)	% Volume	Width (nm)
Z-Average (d.nm): 239,5	Peak 1:	308,3	0,2	168,3
Pdl: 0,420	Peak 2:	5109	0,2	818,0
Intercept: 0,428	Peak 3:	6,185	99,6	1,395

Result quality **Refer to quality report**



Supplementary Figure S1

