

## Zeta Potential Report

Utopia Colloidal Gold 5 ppm

fsk

### Sample

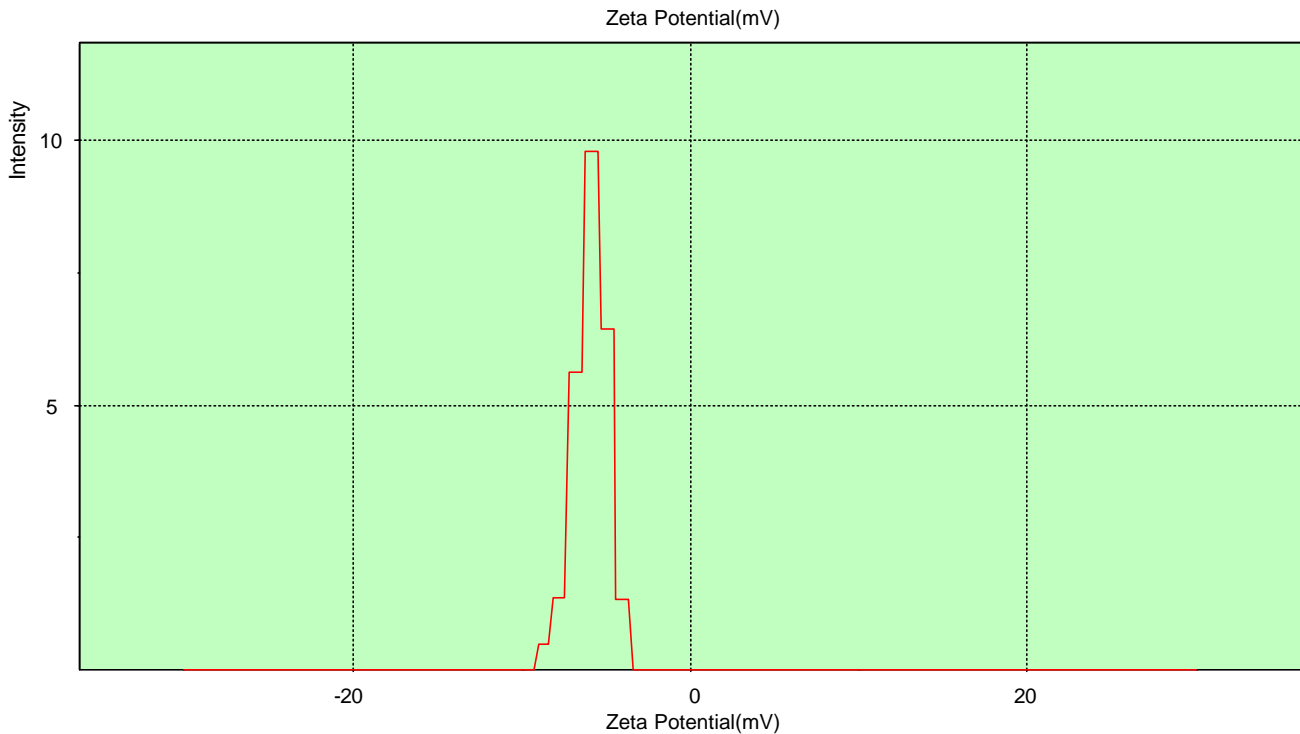
Record Number: 1  
 Filename: Live zeta  
 File Path: .  
 Dielectric Constant: 79.7  
 pH: N/A  
 Viscosity (cP): 0.890  
 Date (DMY): 28/03/01  
 Time: 22:29:14

### System

Instrument Type: Zetasizer 3000HS  
 Temperature (°C): 25.0  
 Count rate (kCps): 2290.7  
 Cell Type: Capillary cell  
 Cell Position (%): 50.00  
 Cell field (V/cm): 29.3  
 Current (mA): 0.0

### Result

Zeta Potential (mV):	-5.9	Mobility (umcm/V.s):	-0.468
StDev (mV):	0.3	StDev (umcm/V.s):	0.026
Conductivity (mS/cm):	0.00	F(ka):	1.50



Int.	Zeta(mV)	Mob( $\mu\text{mcm/Vs}$ )	Freq.(Hz)	Int.	Zeta(mV)	Mob( $\mu\text{mcm/Vs}$ )	Freq.(Hz)
0.0	-30.0	-2.377	442.4	0.0	0.5	0.038	284.5
0.0	-29.0	-2.302	437.4	0.0	1.4	0.113	279.6
0.0	-28.1	-2.226	432.5	0.0	2.4	0.189	274.7
0.0	-27.1	-2.151	427.6	0.0	3.3	0.264	269.7
0.0	-26.2	-2.075	422.6	0.0	4.3	0.340	264.8
0.0	-25.2	-2.000	417.7	0.0	5.2	0.415	259.9
0.0	-24.3	-1.925	412.8	0.0	6.2	0.491	254.9
0.0	-23.3	-1.849	407.8	0.0	7.1	0.566	250.0
0.0	-22.4	-1.774	402.9	0.0	8.1	0.642	245.1
0.0	-21.4	-1.698	398.0	0.0	9.0	0.717	240.1
0.0	-20.5	-1.623	393.0	0.0	10.0	0.792	235.2
0.0	-19.5	-1.547	388.1	0.0	11.0	0.868	230.3
0.0	-18.6	-1.472	383.2	0.0	11.9	0.943	225.3
0.0	-17.6	-1.396	378.2	0.0	12.9	1.019	220.4
0.0	-16.7	-1.321	373.3	0.0	13.8	1.094	215.5
0.0	-15.7	-1.245	368.4	0.0	14.8	1.170	210.6
0.0	-14.8	-1.170	363.4	0.0	15.7	1.245	205.6
0.0	-13.8	-1.094	358.5	0.0	16.7	1.321	200.7
0.0	-12.9	-1.019	353.6	0.0	17.6	1.396	195.8
0.0	-11.9	-0.943	348.7	0.0	18.6	1.472	190.8
0.0	-11.0	-0.868	343.7	0.0	19.5	1.547	185.9
0.0	-10.0	-0.792	338.8	0.0	20.5	1.623	181.0
1.9	-9.0	-0.717	333.9	0.0	21.4	1.698	176.0
5.4	-8.1	-0.642	328.9	0.0	22.4	1.774	171.1
22.4	-7.1	-0.566	324.0	0.0	23.3	1.849	166.2
39.2	-6.2	-0.491	319.1	0.0	24.3	1.925	161.2
25.7	-5.2	-0.415	314.1	0.0	25.2	2.000	156.3
5.3	-4.3	-0.340	309.2	0.0	26.2	2.075	151.4
0.0	-3.3	-0.264	304.3	0.0	27.1	2.151	146.4
0.0	-2.4	-0.189	299.3	0.0	28.1	2.226	141.5
0.0	-1.4	-0.113	294.4	0.0	29.0	2.302	136.6
0.0	-0.5	-0.038	289.5	0.0	30.0	2.377	131.6

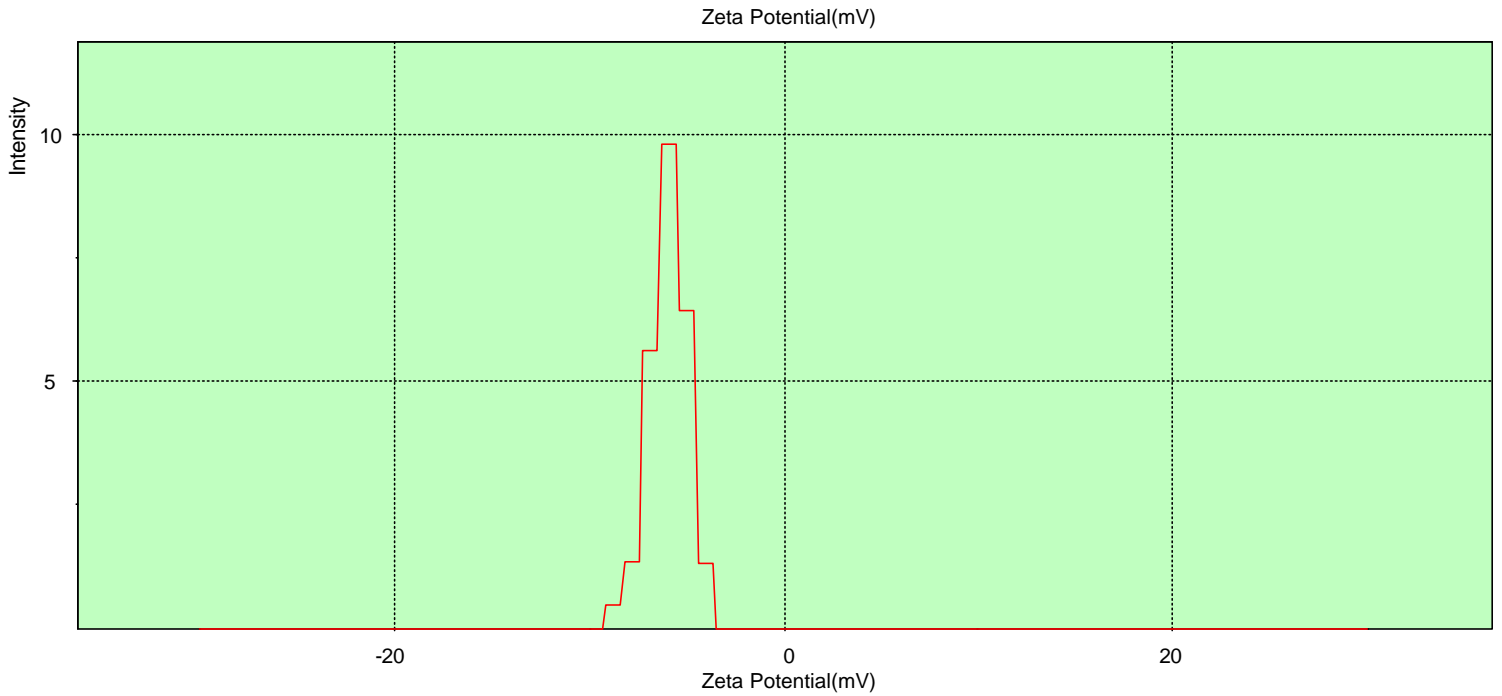
Peak Analysis by Zeta pot.			
Peak	Amp	Mean	Width
1	100.0	-5.9	0.3

Peak Analysis by Mobility			
Peak	Amp	Mean	Width
1	100.0	-0.5	0.0

Peak Analysis by Frequency			
Peak	Amp	Mean	Width
1	100.0	317.6	1.7



Mean(mV) **-5.9**    Width(mV) **0.3**    Time **22:29:14**    Date **28/03/01**    Function **Zeta Pot. 25.0**    Temp.(°C)    Visc.(cP) **0.890**    Title **Utopia Colloidal Gold 5 ppm**