

Material

Zirconium dioxide (ZrO₂)

**Charge description/
NanoCare Product number**

CH-000216
8.3

Provider

ItN Nanovation AG

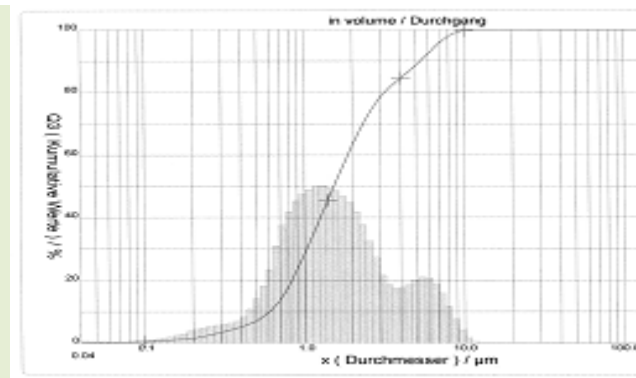
Available form

Suspension in water

Primary particle size [d₅₀ in nm]

460.7 nm

Particle size distribution



pH

9.45 (in water)

BET Surface area

96 m²/g

Particle morphology

Irregular spherical

Crystal phase and crystallinity

Mixed phase monocline (75%)/ tetragonal (25%)

Stabilisation

Ammoniumpolyacrylate

Solubility in water

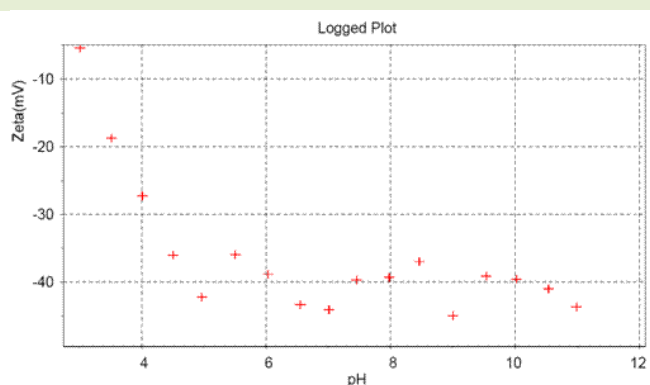
190 ppm

Purity/contamination

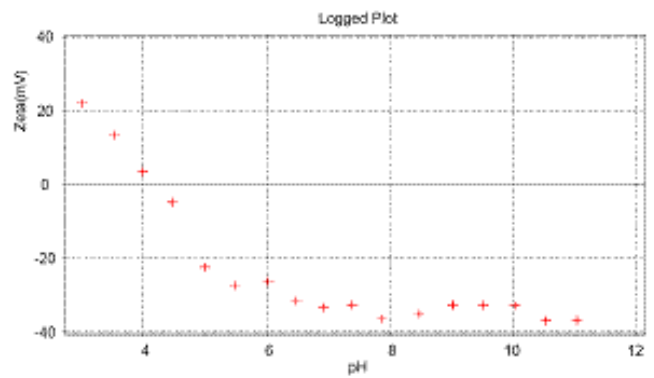
O 60 %
Zr 37 %
Cl 3 %

REM/TEM

**Zeta potential
(in water)**



**Zeta potential
(in DMEM + FCS)**



Surface area chemistry

O	48 %
Zr	21 %
C	18 %
N	12%
Cl	0.6 %