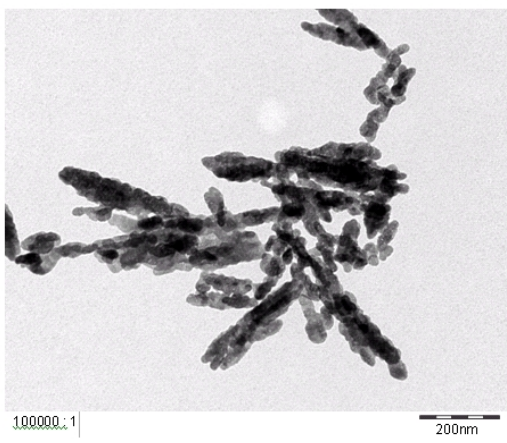


## Material

## Strontium carbonate ( $\text{SrCO}_3$ )

<b>NanoCare Product number</b>	11.1
<b>Charge description</b>	CH-000438
<b>Provider</b>	Solvay Infra Bad Hönningen GmbH
<b>Available form</b>	Powder (hydrophilic)
<b>Primary particle size (XRD)</b>	18.5 nm
<b>Particle size distribution (Laser diffraction)</b>	$d_{90} = 23.7 \mu\text{m}$ $d_{50} = 5.9 \mu\text{m}$
<b>pH in water (10 % solids)</b>	7.8
<b>BET Surface area</b>	33 $\text{m}^2/\text{g}$
<b>Particle morphology</b>	rod like primary particles strongly agglomerated
<b>Crystal phase and crystallinity</b>	Crystalline, orthorhombic, like Strontianit
<b>Stabilisation</b>	organically modified, hydrophilic
<b>Solubility in water (NanoCare method)</b>	28 mg Sr-Ion per litre
<b>Purity/contamination</b>	96.4 % Remaining fraction: Water and org. additive
<b>Microscopy (TEM)</b>	
<b>Zeta potential: 15 % suspension in water</b>	- 10 mV                      isoelectric point < pH 7
<b>Surface area chemistry (XPS)</b>	Sr 21.1 At% C 27.1 At% O 51.3 At%