

Titania — Decylphenyl Groups

SKU: SN26-TI

Description

- The range of non-metallic nanoparticles, with various functionalities, are part of our recently developed products based on our own unique manufacturing technique
- These materials could be used for further functionalisation with biomolecules, chelators and binding sites for various applications.

Applications

- ◆ Biomolecules adsorption and separation
- ◆ Bioconjugation
- ◆ Heavy metal ion separation
- ◆ Water and wastewater purification
- ◆ Theranostics platform
- ◆ Paints and coatings
- ◆ Pharmaceuticals and cosmetics
- ◆ Packaging

Technical Information

Physical: Average size of 20 nm and available either as a nanopowder or as a dispersion (default solvent is THF).

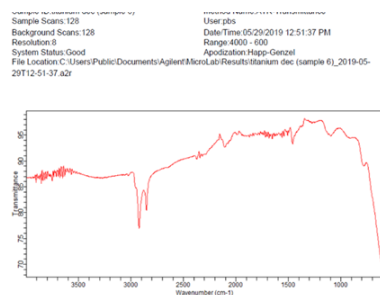


Fig 1: ATR-IR Spectrum

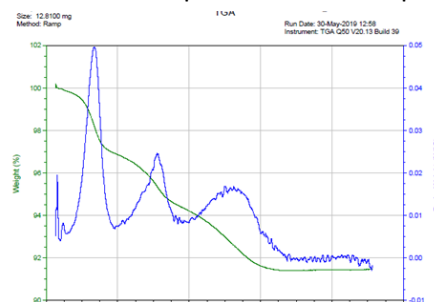


Fig 2: TGA

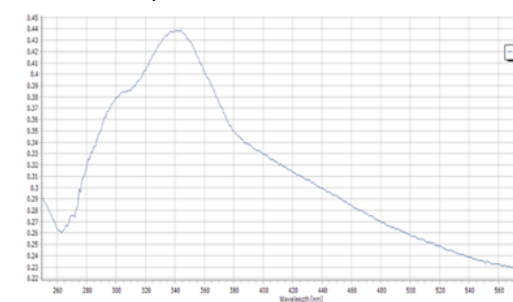


Fig 3: UV-vis

Layer Info	Analyte	Result	(Std. Dev.)	Proc.-Calc.	Line	Intensity
Group : easyairU4µm5mm400sox						
Sample : TE_S6 TI_DECA						
1 Layer1						
1 Layer	Layer1	4.000	um	(-----) Fix	-----	-----
1 Elea.	CH2	100.000	%	(-----) Fix	-----	-----
B Base						
2 Elea.	TiO2	51.971	%	(0.039) Quant.-FP TiKa	289.9800	
2 Elea.	Al2O3	2.180	%	(0.175) Quant.-FP AlKa	0.0049	
2 Elea.	CaO	0.067	%	(0.003) Quant.-FP CaKa	0.3132	
2 Elea.	ZnO	0.005	%	(0.000) Quant.-FP ZnKa	0.1476	
2 Elea.	CH0	45.777	%	(-----) Balance	-----	-----

Fig 4: XRF Analysis

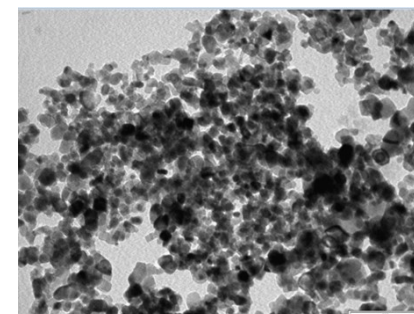


Fig 5: TEM