

TECHNICAL SHEET

NANOROD_goldwater

Descrizione: Gold nanorod in water, stabilized with Cetyl trimethylammonium bromide (CTAB) and Tween20

Appearance: magenta liquid

Chemico-Physical Characteristics:

	Intrument	Range
Au concentration [% w/w]	ICP-OES	0,01 – 0,005
λ_{\max} absorbance [nm]	Spectrofotometer UV-Vis	801 – 805
$\xi_{\text{potential}}$ [mV]	DLS	15 – 30
Average inorganic diameter [nm]	FEG-STEM	(32 – 24) x (10 – 6)
Aspect Ratio		4.0 – 3.5
Optical Density a $\lambda=804$ nm	Spectrofotometer UV-Vis	3,9 – 4,8
Laser mediated hyperthermia (808 nm; 6 W) [W/OD]		5 - 15 - 10

Applications:

The product is employed for laser-induced Hyperthermia applications. It is suitable for encapsulation in organic matrices.

COLOROBBA CONSULTING S.r.l. (socio unico)

Via Pietramarina, 53 - 50053 SOVIGLIANA, Vinci (Firenze) Italia

Tel. +39 0571 7091 - Fax +39 0571 709 874

sviluppo@colorobbia.it - www.colorobbia.com

cap.soc. Euro 51.480 i.v - R.I. Firenze e P.IVA/C.F. IT-03795100480 - R.E.A. FI 389644

(Società soggetta alla direzione e coordinamento di Colorobbia Holding S.p.A. - Vinci - R.I. Firenze e P.IVA/C.F. IT-01847510482)