

## TECHNICAL SHEET

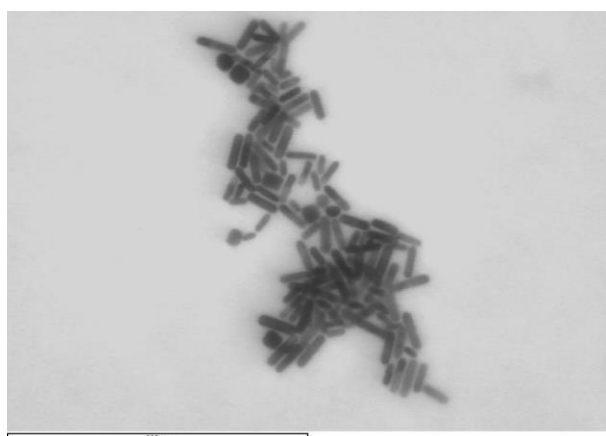
### NANOROD\_goldacid

**Descrizione:** Gold nanorods functionalized with 16-mercaptohexadecanoic acid (MHDA) in TBE (tris borate + ethylenediaminetetraacetic acid)

**Appearance:** magenta liquid

#### Chemico-Physical Characteristics:

	Intrument	Range
Au concentration [% w/w]	ICP-OES	0,5 – 0,6
$\lambda_{max}$ absorbance [nm]	Spectrofotometer UV-Vis	801 – 805
$\xi_{-}$ potential [mV]	DLS	-41 < $\xi$ < - 25
Average inorganic diameter [nm]	FEG-STEM	(32 – 24) x (10 – 6)
Aspect Ratio		4.0 – 3.5
pH	pH-meter	8,5
Optical Density a $\lambda=804$ nm	Spectrofotometer UV-Vis	155 – 227
Laser mediated hyperthermia (808 nm; 6 W) [W/OD]		<b>20 - 30</b>



**Figure 1** FEG-STEM image of Au NRd

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



## Applications:

The product is employed for Laser-induced Hyperthermia applications, as photoacoustic contrast agent, for drug loading and cell-therapies applications.

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