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Product Data Sheet

Product Name:	Molday ION DOTA
Catalog Number:	CL-30Q01-57
Description:	Stable aqueous suspension of iron-based superparamagnetic nanoparticles (USPIO)
Application:	Used to chelate Tc-99m or Cu-64 and then label cells, providing dual MRI and nuclear contrast, magnetic targeting, capture and retention.
Packaging:	2 ml sealed serum bottle
Volume:	0.5 ml
Weight of Iron:	2 mg Fe/ml
Mean Particle Size:	30 nm
Core:	Magnetite
Mean Core Size:	8 nm
Coating:	Dextran
Number of Particles:	~6.4E16 per g
Density:	~1.25 g/cm ³
Zeta Potential:	~ +21 mV
Cell Labeling:	Universal cell labeling reagent - No transfection agent required
Functionality:	Amine
Visualization:	Prussian blue, MRI, TEM, PET– if coupled to Cu-64, SPECT – if coupled to Tc-99m
Storage Buffer:	dH ₂ O
Autoclaved:	No
Long-Term Storage:	4 °C - Do not freeze!
Similar Products:	None
Expiration Date:	None

Known References:

Sci Rep. 2014 Mar 28;4:4501.