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## Product Data Sheet

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Product Name:	Molday ION MI-750
Catalog Number:	CL-50Q01-6A-53
Description:	Stable aqueous suspension of iron-based superparamagnetic nanoparticles (USPIO)
Application:	Used to label cells, providing near IR imaging, MRI contrast, magnetic targeting, capture and retention.
Packaging:	2 ml sealed serum bottle
Volume:	1.0 ml
Weight of Iron:	2 mg Fe/ml
Mean Particle Size:	40 nm
Core:	Magnetite
Mean Core Size:	8 nm
Coating:	Dextran
Number of Particles:	~6.4E16 per g
Density:	~1.25 g/cm <sup>3</sup>
Zeta Potential:	~ +31 mV
R1 (mM <sup>-1</sup> sec <sup>-1</sup> )	30.4
R2 (mM <sup>-1</sup> sec <sup>-1</sup> )	75.8
Fluorescent Tag:	Proprietary
Excitation	750nm
Emission	777nm
Cell Labeling:	Universal cell labeling reagent - No transfection agent required
Functionality	Amine
Visualization:	Florescence, Prussian blue, MRI, TEM
Storage Buffer:	dH <sub>2</sub> O
Autoclaved:	No
Long-Term Storage:	4 °C - <b>Do not freeze!</b>
Similar Products:	None
Expiration Date:	None

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