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Product Data Sheet

Product Name:	Molday ION Dye Free - Autoclaved
Catalog Number:	CL-50Q02-A6A-0
Description:	Stable aqueous suspension of iron-based superparamagnetic nanoparticles (USPIO)
Application:	Used to label cells, providing MRI contrast, magnetic targeting, capture and retention.
Packaging:	2 ml sealed serum bottle
Volume:	2.0 ml
Weight of Iron:	2 mg Fe/ml
Mean Particle Size:	35 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:	~ +48 mV
R1 (mM ⁻¹ sec ⁻¹)	32.1
R2 (mM ⁻¹ sec ⁻¹)	67.1
Cell Labeling:	Universal cell labeling reagent - No transfection agent required
Functionality	Amine
Visualization:	Prussian blue, MRI, TEM
Storage Buffer:	dH ₂ O
Autoclaved:	Yes
Long-Term Storage:	4 °C - Do not freeze!
Similar Products:	None
Expiration Date:	None

Known References:

Curr Gene Ther. 2014;14(2):136-45.
Int J Nanomedicine. 2014 Jan 8;9:337-50
PLoS One. 2013 Sep 13;8(9):e74658
Mol Med Rep. 2013 Nov;8(5):1446-52
Radiology. 2012 Oct;265(1):175-85
PLoS One. 2011;6(9):e24730
Magn Reson Med. 2011 Feb;65(2):564-74
Biotechniques. 2011 Apr;50(4):223-7
Contrast Media Mol Imaging. 2011 Nov-Dec;6(6):514-22
Contrast Media Mol Imaging. 2011 Jan-Feb;6(1):7-18
Sci China Life Sci. 2011 Nov;54(11):981-7
J Am Coll Cardiol. 2009 Oct 20;54(17):1627-8