

Transfection reagent

M FluoMag™

Fluorescently-labeled Transfection Reagents

Protocol



Magnetofection Technology

This reagent needs to be used with a magnetic plate

FluoMag Reagents | Specifications

Package content	FP10100: 100µL of FluoMag-P FC10100: 100µL of FluoMag-C FS10100: 100µL of FluoMag-S FV10100: 100µL of FluoMag-V FN10100: 100µL of FluoMag-N
Shipping conditions	Room Temperature
Storage conditions	FluoMag reagents are light sensitive and must be store in the dark at +4°C
Shelf life	3 months from the date of purchase for FluoMag, C, P, S and V when properly stored and handled 1 year from the date of purchase for FluoMag-N when properly stored and handled
Product description	The FluoMag reagents (FluoMag-P, FluoMag-C, FluoMag-S, and FluoMag-V, FluoMag-N) are used exactly the same way as their corresponding Magnetofection reagents (PolyMag, CombiMag, SilenceMag, ViroMag and NeuroMag).
Important notice	For research use only. Not for use in diagnostic procedures

FluoMag Reagents | General Considerations

FluoMag reagents are tetramethylrhodamine-conjugated magnetic nanoparticles. These red fluorescent reagents are useful for many applications. For instance:

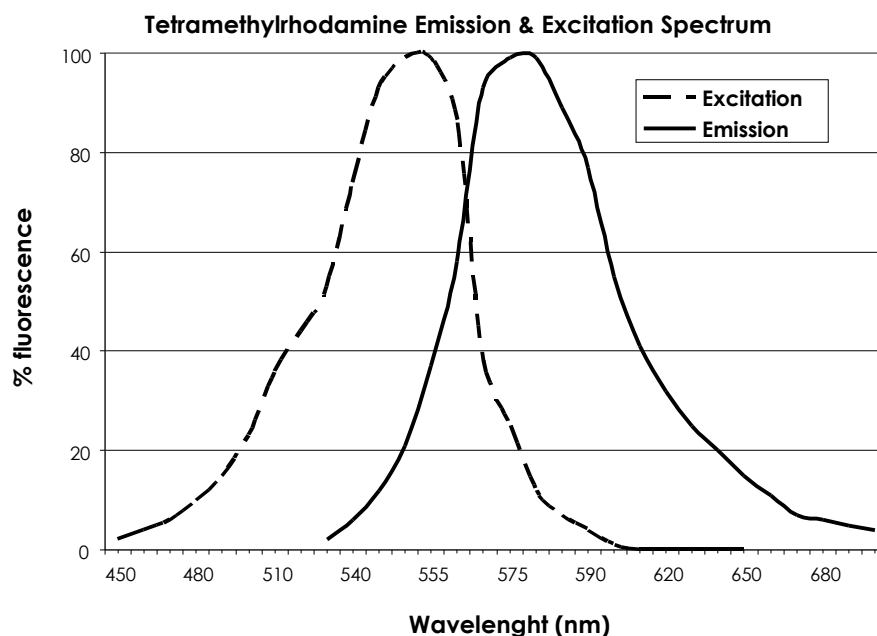
- Double labeling and co-localization studies, with GFP or FITC labeled nucleic acids
- FACS analysis, fluorescent and confocal microscopy
- Transfection mechanisms follow (interaction with cells, intracellular pathway...)
- Fluorescence resonance energy transfer (FRET) assay as well as tracking internalization pathway in endocytic vesicles.
- Determine complexes stability in various biological environment
- Analyze the association of nucleic acids or transfection reagents or viruses with the magnetic nanoparticles

Five different fluorescently-labeled magnetic nanoparticles are available:

- **FluoMag-P** corresponding to *PolyMag* (DNA transfection and nucleic acids delivery)
- **FluoMag-S** analogous to *SilenceMag* (siRNA applications)
- **FluoMag-C** corresponding to *CombiMag* (for enhancing all transfection reagents efficiency)
- **FluoMag-V** equivalent to *ViroMag* (viral applications)
- **FluoMag-N** equivalent to *NeuroMag* (neurons applications)

FluoMag Reagents | Tetramethylrhodamine Probe

The **FluoMag** reagents are labeled with a rhodamine fluorophore (red) that is visualized in the visible spectrum. The excitation peak is at 555 nm and the emission maximum at 580 nm. It is ideal for FACS, fluorescent and confocal microscopy and most fluorescent detection systems. This red probe is pH insensitive and therefore suitable for fluorescence resonance energy transfer (FRET) studies. The label is covalently coupled to the magnetic nanoparticles and cannot leave the nanoparticles upon nucleic acid interactions or internalization.



Fluorescent probe	Max Excitation Wavelength (nm)	Max Emission Wavelength (nm)	pH Sensitive
TRITC	555	580	no

ϵ (Cm ⁻¹ M ⁻¹)	CF 280 (A ₂₈₀ free dye / A _{max} free dye)	Laser range
65,000	0.30	visible

FluoMag Reagents | Protocol

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Accordingly, we recommend you to follow the detailed instruction manual of these Magnetofection reagents for all FluoMag products.

Additional products

- **PolyMag** for DNA transfection of hard-to-transfect cells
- **CombiMag** for improving your transfection reagent efficiency
- **SilenceMag** for siRNA transfection into hard-to-transfect cells
- **ViroMag** for enhancing viral transduction efficiency
- **NeuroMag** dedicated to neurons transfection

Purchaser Notification

Limited License

The purchase of the FluoMag grants the purchaser a non-transferable, non-exclusive license to use the kit and/or its separate and included components (as listed in this protocol). This reagent is intended for in-house research only by the buyer. Such use is limited to the transfection of nucleic acids as described in the product manual. In addition, research only use means that this kit and all of its contents are excluded, without limitation, from resale, repackaging, or use for the making or selling of any commercial product or service without the written approval of OZ Biosciences. Separate licenses are available from OZ Biosciences for the express purpose of non-research use or applications of the FluoMag. To inquire about such licenses, or to obtain authorization to transfer or use the enclosed material, contact us at OZ Biosciences. Buyers may end this License at any time by returning all FluoMag reagents and documentation to OZ Biosciences, or by destroying all FluoMag components. Purchasers are advised to contact OZ Biosciences with the notification that a FluoMag is being returned in order to be reimbursed and/or to definitely terminate a license for internal research use only granted through the purchase of the kit(s). This document covers entirely the terms of the FluoMag research only license, and does not grant any other express or implied license. The laws of the French Government shall govern the interpretation and enforcement of the terms of this License.

Product Use Limitations

FluoMag and all of its components are developed, designed, intended, and sold for research use only. They are not to be used for human diagnostic or included/used in any drug intended for human use. All care and attention should be exercised in the use of the kit components by following proper research laboratory practices.

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