

Label IT® Plasmid Delivery Control

Quick Reference Protocol

Instructions for MIR 7904, 7905, 7906, 7907

Full protocol, SDS and Certificate of Analysis available at mirusbio.com/7904



SPECIFICATIONS

Storage	Store Label IT® Plasmid Delivery Control at –20°C, protected from light.
Product Guarantee	The Label IT® Plasmid Delivery Controls are stable for 1 year from the date of purchase, when properly stored and handled.
Concentration	0.5 µg/µl in TE Buffer

The Label IT® Plasmid Delivery Control is a tool designed to facilitate visualization and optimization of plasmid DNA delivery for *in vitro* and *in vivo* applications. The Label IT® Plasmid Delivery Control consists of either Cy®3- or fluorescein-labeled circular plasmid DNA (2.7 kb) and is formatted for small scale *in vitro* applications (MIR 7904, 7906) or large scale *in vitro* applications as well as *in vivo* delivery of the labeled plasmid DNA (MIR 7905, 7907).

Label IT® Plasmid Delivery Control Product Configurations:

Product Name	Product No.	Quantity	Excitation Wavelength (nm)	Emission Wavelength (nm)
Label IT® Plasmid Delivery Control, Cy®3	MIR 7904	10 µg in 20 µl	550	570
Label IT® Plasmid Delivery Control, Cy®3	MIR 7905	100 µg in 200 µl	550	570
Label IT® Plasmid Delivery Control, Fluorescein	MIR 7906	10 µg in 20 µl	492	518
Label IT® Plasmid Delivery Control, Fluorescein	MIR 7907	100 µg in 200 µl	492	518

Label IT® Plasmid Delivery Control Applications

In Vivo Delivery

Efficient *in vivo* delivery of plasmid DNA to mice via hydrodynamic tail vein injection with TransIT® EE or TransIT® QR Delivery Solution can be monitored using the Label IT® Plasmid Delivery Control. Hydrodynamic tail vein injection results in efficient nucleic acid delivery to liver hepatocytes with lower levels of delivery to the spleen, kidney, lungs and heart. The Label IT® Plasmid Delivery Control may also be used to assess alternative methods of *in vivo* delivery.

In Vitro Transfection

The Label IT® Plasmid Delivery Controls can be directly substituted into standard *in vitro* transfection or electroporation protocols to facilitate the visual tracking of plasmid DNA following cellular uptake. For a list of broad-spectrum and cell line-specific transfection reagents that can be used to deliver the Label IT® Plasmid Delivery Control, see the Related Products section or visit our online transfection database, [Reagent Agent®](#), which is a tool designed to help determine the best delivery solution for a given nucleic acid and cell type. When available, Reagent Agent® also provides more detailed experimental conditions and references.

NOTE: The strength of the Label IT® Plasmid Delivery Control fluorescent signal will depend on several factors including transfection efficiency, amount of labeled plasmid used, growth rate of the cells, and incubation time post-transfection. To obtain the desired fluorescent signal, it may be necessary to titrate the amount of Label IT® Plasmid Delivery Control transfected. Assess the distribution of the Label IT® Plasmid Delivery Control fluorescent signal in transfected cells between 4 and 48 hours post-transfection.

For Research Use Only

Mirus Bio LLC

www.mirusbio.com | techsupport@mirusbio.com | Toll Free (U.S.): 844.MIRUSBIO | Direct: +1.608.441.2852

► RELATED PRODUCTS

- *TransIT-X2®* Dynamic Delivery System
- *TransIT®-LT1* Transfection Reagent
- *TransIT®-2020* Transfection Reagent
- *TransIT-TKO®* Transfection Reagent
- *TransIT®* Cell Line Specific Reagents and Kits
- *TransIT®-QR* Delivery Solution
- *TransIT®-EE* Delivery Solution
- *Ingenio®* Electroporation Solution and Kits
- *Label IT®* RNAi Delivery Controls
- *Label IT®* Tracker Intracellular Nucleic Acid Localization Kits
- *Label IT®* siRNA Tracker Intracellular Localization Kits

For details on the above mentioned products, visit www.mirusbio.com



Reagent Agent®

Reagent Agent® is an online tool designed to help determine the best solution for nucleic acid delivery based on in-house data, customer feedback and citations.

Learn more at: mirusbio.com/ra



SDS and Certificate of Analysis available at mirusbio.com/7904

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Mirus Bio LLC

www.mirusbio.com | techsupport@mirusbio.com | Toll Free (U.S.): 844.MIRUSBIO | Direct: +1.608.441.2852