The **Label IT® RNAi Delivery Control** is designed to facilitate visualization and optimization of dsRNA oligonucleotide delivery during *in vitro* and *in vivo* RNAi experiments. The **Label IT® RNAi Delivery Control** consists of either Cy®3- or fluorescein-labeled double-stranded RNA duplexes of similar length, charge and configuration as standard siRNA used in RNAi studies. The sequence of the **Label IT® RNAi Delivery Control** is not homologous to any known mammalian gene and is suitable for co-delivery with gene-specific siRNA without affecting the RNAi-mediated inhibition of the target gene. The 10 µM **Label IT® RNAi Delivery Control** is supplied in 75 µl (MIR 7900, 7902) or 750 µl (MIR 7901, 7903) volumes.

**Product Guarantee**

The **Label IT® RNAi Delivery Control** and 10X RNAi Dilution Buffer are guaranteed for 1 year from the date of purchase, when properly stored and handled.

**Concentration**

10 µM stock in RNAi Dilution Buffer

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Storage</th>
<th>Store <strong>Label IT® RNAi Delivery Control</strong> at −20°C, protected from light. Store the 10X RNAi Dilution Buffer at −20°C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Guarantee</td>
<td>The <strong>Label IT® RNAi Delivery Control</strong> and 10X RNAi Dilution Buffer are guaranteed for 1 year from the date of purchase, when properly stored and handled.</td>
</tr>
<tr>
<td>Concentration</td>
<td>10 µM stock in RNAi Dilution Buffer</td>
</tr>
</tbody>
</table>

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**Label IT® RNAi Delivery Control Product Configurations:**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Product No.</th>
<th>Quantity</th>
<th>Excitation Wavelength (nm)</th>
<th>Emission Wavelength (nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Label IT® RNAi Delivery Control, Cy®3</strong></td>
<td>MIR 7900</td>
<td>10 µg (~0.75 nmol)</td>
<td>550</td>
<td>570</td>
</tr>
<tr>
<td><strong>Label IT® RNAi Delivery Control, Cy®3</strong></td>
<td>MIR 7901</td>
<td>100 µg (~7.5 nmol)</td>
<td>550</td>
<td>570</td>
</tr>
<tr>
<td><strong>Label IT® RNAi Delivery Control, Fluorescein</strong></td>
<td>MIR 7902</td>
<td>10 µg (~0.75 nmol)</td>
<td>492</td>
<td>518</td>
</tr>
<tr>
<td><strong>Label IT® RNAi Delivery Control, Fluorescein</strong></td>
<td>MIR 7903</td>
<td>100 µg (~7.5 nmol)</td>
<td>492</td>
<td>518</td>
</tr>
</tbody>
</table>

**Label IT® Plasmid Delivery Control Applications**

**In Vivo Delivery**

*In vivo* delivery of siRNA to mice via hydrodynamic tail vein injection can be monitored by complexing the **Label IT® RNAi Delivery Control** with Mirus Bio’s **TransIT® QR Delivery Solution**. Hydrodynamic tail vein injection results in efficient delivery to liver hepatocytes with lower levels of delivery to the spleen, kidney, lungs and heart. The **Label IT® RNAi Delivery Control** may also be used to assess alternative methods of *in vivo* delivery. For example, efficient siRNA delivery to limb skeletal muscle can also be achieved using an intravenous delivery injection procedure.

**In Vitro Transfection**

The **Label IT® RNAi Delivery Control** can be directly substituted into standard *in vitro* transfection or electroporation protocols to facilitate the visual tracking of siRNA following cellular uptake. For a list of siRNA-compatible transfection reagents that can be used to deliver the **Label IT® RNAi 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 detailed experimental conditions and references.

**NOTE:** The **Label IT® RNAi Delivery Control** fluorescent signal strength will depend on several factors including transfection efficiency, amount of control siRNA used, cell growth rate and post-transfection incubation time. It may be necessary to titrate the amount of **Label IT® RNAi Delivery Control** transfected from 10 to 100 nM to obtain the desired fluorescent signal. Assess the distribution of the **Label IT® RNAi Delivery Control** fluorescent signal in transfected cells between 4 and 48 hours post-transfection.

For Research Use Only

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Mirus Bio LLC

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## RELATED PRODUCTS

- **TransIT-X2®** Dynamic Delivery System
- **TransIT-siQUEST®** Transfection Reagent
- **TransIT-TKO®** Transfection Reagent
- **TransIT®-QR Delivery Solution**
- **Ingenio®** Electroporation Solution and Kits
- **Label IT®** Plasmid Delivery Controls
- **Label IT®** Tracker Intracellular Nucleic Acid Localization Kits
- **Label IT®** Plasmid Delivery Control
- **Label IT®** siRNA Tracker Intracellular Localization Kits

For details on the above mentioned products, visit [www.mirusbio.com](http://www.mirusbio.com)

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**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/7900](http://mirusbio.com/7900)