

GeneSilencer™ siRNA Transfection Reagent Frequently Asked Questions (FAQ's)

1. **What is the GeneSilencer™ siRNA Transfection Reagent?**
2. **How does the GeneSilencer™ siRNA Transfection Reagent work?**
3. **How do I design my siRNA oligonucleotide?**
4. **How can I determine transfection efficiency using the GeneSilencer™ siRNA Transfection Reagent?**
5. **Where can I obtain fluorescent-labeled siRNA oligonucleotides?**

1. What is the GeneSilencer™ siRNA Transfection Reagent?

The GeneSilencer™ siRNA Transfection Reagent is a novel cationic lipid formulation specifically designed for efficient delivery of siRNAs (small interfering RNAs) into a wide variety of cell types.

- 2. How do I design my siRNA oligonucleotide?** Please visit our website at www.genetherapysystems.com for guidelines on designing siRNA oligonucleotides.

3. How does the GeneSilencer™ siRNA Transfection Reagent work?

The GeneSilencer™ siRNA Transfection Reagent works by forming non-covalent complexes with siRNA oligonucleotides, and subsequently binding to cell membranes. The siRNA/GeneSilencer complexes are taken into the cellular cytoplasm primarily via endocytosis. Once inside the cells, the siRNA is released to achieve sequence specific gene silencing through RNA interference.

- 4. How can I determine efficiency of my transfection using the GeneSilencer™ siRNA Transfection Reagent?** Efficiency of siRNA transfection is commonly determined by using fluorescent-labeled siRNA oligonucleotides.

- 5. Where can I obtain fluorescent-labeled siRNA oligonucleotides?** Fluorescent-labeled siRNA oligonucleotides may be obtained from Orbigen (www.orbigen.com).

