

SAIVI™ 715 injectable contrast agent *0.1 µm microspheres*

SAIVI™ 715 injectable contrast agent *2 µm microspheres*

Table 1. Contents and storage information.

Material	Amount	Storage	Stability
Polystyrene microspheres	1 mL	<ul style="list-style-type: none"> • 2–6° • Do not freeze • Protect from light 	When stored as directed, product is stable for at least one year
Approximate fluorescence excitation and emission, in nm: 715/755			

Introduction

SAIVI™ 715 injectable contrast agents are specially formulated for small-animal *in vivo* imaging of regions of inflammation, blood pooling, and wound healing. These contrast agents are polymeric microspheres that have been labeled with a fluorescent dye; each microsphere particle contains many dye molecules protected within the polymer sphere. Their use for *in vivo* imaging offers many advantages over existing contrast agents, including:

- No known intrinsic toxicity; likely to be nonimmunogenic
- A high degree of localization within diseased vasculature
- Longer *in vivo* residence times than organic dye–labeled proteins
- Formulated to resist liver accumulation

SAIVI™ injectable contrast agents have been observed to circulate throughout the blood and to accumulate in tissues that exhibit damaged, excessive, or otherwise abnormal blood vessel development as part of the disease process. These agents are optimized for emission intensity and tested by *in vivo* imaging after injection in disease models established in mice.

The excellent *in vivo* residence times observed for these microspheres make them well suited for use as part of a suite of complementary contrast agents: dye–protein conjugates (such as our SAIVI™ Alexa Fluor® 680 or Alexa Fluor® 750 conjugates of transferrin or albumin) for rapid imaging of early-onset events, and SAIVI™ 715 microspheres for intermediate- and longer-term *in vivo* imaging.

Guidelines for Use

Using Imaging Agents

Allow the injectable contrast agent to equilibrate to room temperature before use.

The recommended starting dose is 100 μ l. If a lower concentration of microspheres is desired, inject a smaller volume of the solution. **DO NOT DILUTE.**

The recommended procedure for *in vivo* imaging with SAIVI™ 715 injectable contrast agents is administration via tail-vein injection and imaging 10 min–24 hr after injection, depending upon the experimental protocol. We recommend imaging frequently in initial experiments to determine the appropriate time course for each type of experiment.

These imaging agents have been used to characterize vascular changes in rodent models of inflammatory disease and wound healing, using appropriate near-infrared imaging equipment. We have observed evolution of signal to background over time periods ranging from ~2 hours to 2 days for the 0.1 μ m microspheres, with excellent resolution remaining through 28 days of observation. The 2 μ m microspheres showed steady signal evolution from ~30 minutes to 7 days, and remained visible even after 14 days of observation.

Product List **Current prices may be obtained from our website or from our Customer Service Department.**

Cat #	Product Name	Unit Size
S31201	SAIVI™ 715 injectable contrast agent *0.1 μ m microspheres*.....	1 mL
S31203	SAIVI™ 715 injectable contrast agent *2 μ m microspheres*.....	1 mL

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