

## Product Information Sheet

### Ordering Information

Product Number:	471
Product Name:	LRB Red™, SE
Unit Size:	10 mg
Storage Conditions:	<-15 °C and kept from light and moisture
Expiration Date:	12 months upon receiving

### Chemical, Physical and Spectral Properties

Molecular Weight:	766.88
Appearance:	Red solid
Soluble in:	DMF
Excitation Wavelength:	568 nm
Emission Wavelength:	583 nm

### Application Notes

Although Lissamine Rhodamine B chloride is one of the most popular labeling reagents of sulfonyl chloride, it is quite unstable in water. Even in anhydrous DMF, Lissamine Rhodamine B chloride tends to give a very complicated reaction mixture. It reacts with thiols, alcohols, phenols, aliphatic amines and aromatic amines indiscriminately. LRB Red™ is a succinimidyl ester and has the spectral properties identical to those of Lissamine Rhodamine B chloride. LRB Red™ is a superior replacement for Lissamine Rhodamine B chloride. LRB Red™ only reacts with aliphatic amines such as amino acids, peptides and proteins to give bright red fluorescent conjugates that are extremely stable. Compared to Lissamine Rhodamine B chloride, LRB Red™ has much higher labeling efficiency, and more importantly the resulted conjugates are much easier to be purified due to its much cleaner reactions. We strongly recommend that you consider using LRB Red™ to replace Lissamine Rhodamine B chloride for labeling peptides and oligonucleotides.