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## Product Information Sheet

### **Ordering Information**

Product Number: 22470  
Product Name: FunXite™-1  
Unit Size: 100 uL  
Storage Conditions: Freeze (<-15 °C), Minimize light exposure  
Expiration Date: 12 months upon receiving

### **Chemical and Spectral Properties**

Appearance: Liquid  
Molecular Weight: 528.84  
Soluble In: DMSO  
Excitation Wavelength: N/A  
Emission Wavelength: N/A

### **Application Notes**

FunXite™-1 is chemically same molecule to FUN® 1 (FUN® 1 is the trademark of ThermoFisher). It is a unique two-color fluorescent viability probe for yeast and fungi. FunXite-1 diffuses into a variety of cells and initially stains the cytoplasm with a diffusely distributed green fluorescence. In some yeasts and fungi, the stain reacts with some cellular substances (e.g., glutathione) to generate distinct vacuolar structures that exhibit a striking red fluorescence, accompanied by a reduction in the green cytoplasmic fluorescence. Formation of the intravacuolar structures requires both plasma membrane integrity and metabolic capability. Dead yeast and fungus cells fluoresce bright yellow-green, with no discernable red structures.