

Product Datasheet

SYBR Green Fluorescent DNA Stain (orb1821442)

Catalog Number	orb1821442							
Category	Tools							
Description	<p>SYBR Green Fluorescent DNA Stain is a superior DNA intercalator dye specially developed for DNA analysis applications including real-time PCR (qPCR). Upon binding to DNA, the non-fluorescent dye becomes highly fluorescent while showing no detectable inhibition to the PCR process. The dye is extremely stable both thermally and hydrolytically, providing convenience during routine handling. SYBR Green Fluorescent DNA Stain is supplied as 100 μM concentration. Vortex SYBR Green Fluorescent DNA Stain thoroughly prior to its use. An SYBR Green concentration of 0.5-1.0 μM in the final assay is recommended. Add SYBR Green Fluorescent DNA Stain as indicated in the table below per assay. Please note that the preparation of a master mix may be crucial in quantitative PCR reactions to reduce pipetting errors. Select the optical setting for SYBR Green or FAM on the detection instrument. final SYBR Green concentration</p> <table><tr><td>20 μl PCR assay</td><td>50 μl PCR assay</td><td>0.5 μM</td><td>0.1 μl</td><td>0.25 μl</td><td>1.0 μM</td><td>0.2 μl</td></tr></table> <p>0.50 μl SYBR is a registered trademark of Invitrogen Corporation, Carlsbad, California, USA.</p>	20 μ l PCR assay	50 μ l PCR assay	0.5 μ M	0.1 μ l	0.25 μ l	1.0 μ M	0.2 μ l
20 μ l PCR assay	50 μ l PCR assay	0.5 μ M	0.1 μ l	0.25 μ l	1.0 μ M	0.2 μ l		
Form/Appearance	liquid, supplied in 20 mM Tris-HCl pH 8.5, 0.1 mM EDTA and 0.01 % Tween-20; Color: orange							
Concentration	100 μ M							
Application notes	Spectroscopic Propertie: λ_{exc} 495 nm, λ_{em} 520 nm (bound to DNA).							
Storage	store at -20 °C. store dark							
Note	For research use only							
Expiration Date	12 months from date of receipt.							

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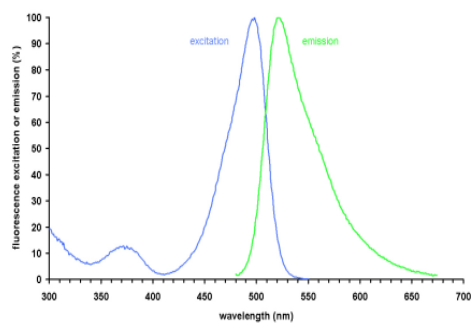
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SYBR® Green Fluorescent DNA Stain: λ_{exc} 495 nm, λ_{em} 520 nm (bound to DNA)

Excitation (blue) and emission (green) spectrum of SYBR® Green bound to dsDNA

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