

## Product Datasheet

### SYBR Green Fluorescent DNA Stain (orb1821443)

<b>Description</b>	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 $\mu$ M concentration. Vortex SYBR Green Fluorescent DNA Stain thoroughly prior to its use. An SYBR Green concentration of 0.5-1.0 $\mu$ M 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 20 $\mu$ l PCR assay 50 $\mu$ l PCR assay 0.5 $\mu$ M 0.1 $\mu$ l 0.25 $\mu$ l 1.0 $\mu$ M 0.2 $\mu$ l 0.50 $\mu$ l SYBR is a registered trademark of Invitrogen Corporation, Carlsbad, California, USA.
<b>Form/Appearance</b>	liquid, supplied in 20 mM Tris-HCl pH 8.5, 0.1 mM EDTA and 0.01 % Tween-20; Color: orange
<b>Concentration</b>	100 $\mu$ M
<b>Storage</b>	store at -20 °C. store dark
<b>Note</b>	For research use only
<b>Application notes</b>	b>Spectroscopic Propertie: $\lambda_{exc}$ 495 nm, $\lambda_{em}$ 520 nm (bound to DNA).
<b>Expiration Date</b>	12 months from date of receipt.

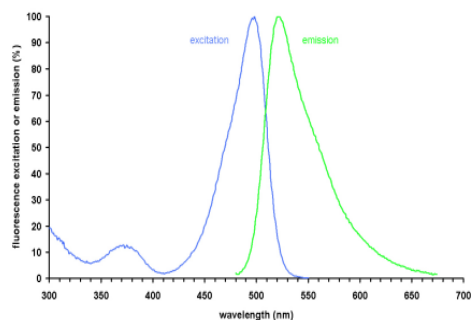
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**Biorbyt Ltd.**

7 Signet Court, Swann's Road,  
Cambridge, CB5 8LA, United Kingdom  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

**Biorbyt LLC.**

68 TW Alexander Drive,  
Durham, NC, 27713, United States  
Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)



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

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

## Biorbyt Ltd.

7 Signet Court, Swann's Road,  
Cambridge, CB5 8LA, United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)

Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

## Biorbyt LLC.

68 TW Alexander Drive,  
Durham, NC, 27713, United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)

Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)