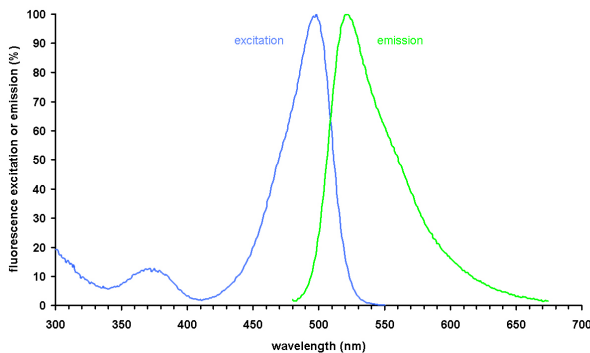




Sybr® Green Fluorescent DNA Stain

DNA intercalation dye for real-time PCR analysis

Cat. No.	Amount
PCR-378	500 µl (100 µM)



Excitation (left) and emission (right) spectra of SYBR Green bound to dsDNA.

For *in vitro* use only!

Shipping: shipped on blue ice

Storage Conditions: store at -20 °C

Additional Storage Conditions: store dark

Shelf Life: 12 months

Form: orange liquid (Supplied in 20 mM Tris-HCl pH 8.5, 0.1 mM EDTA and 0.01 % Tween-20)

Concentration: 100 µM

Spectroscopic Properties: λ_{exc} 594 nm (bound to DNA); λ_{em} 520 nm (bound to DNA)

Description:

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. Select the optical setting for SYBR® Green or FAM on the detection instrument to perform the assay.

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	20 µl PCR assay	50 µl PCR assay
0.5 µM	0.1 µl	0.25 µl
1.0 µM	0.2 µl	0.50 µl

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