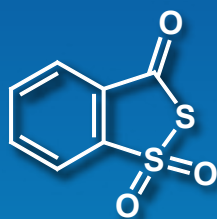
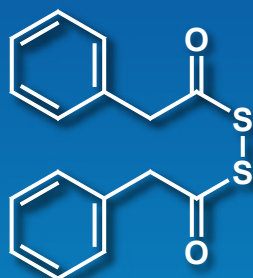


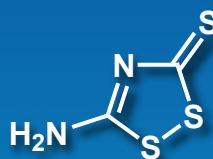
Sulfur-Transfer Reagents for Synthesis of Oligonucleotide Phosphorothioates



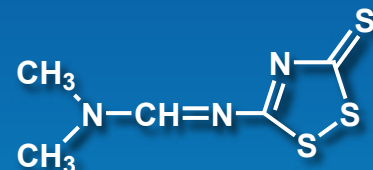
Beaucage Reagent
1g / 5g
[B3125]



Bis(phenylacetyl) Disulfide
5g / 25g
[B3623]



Xanthane Hydride
25g / 100g / 500g
[X0001]



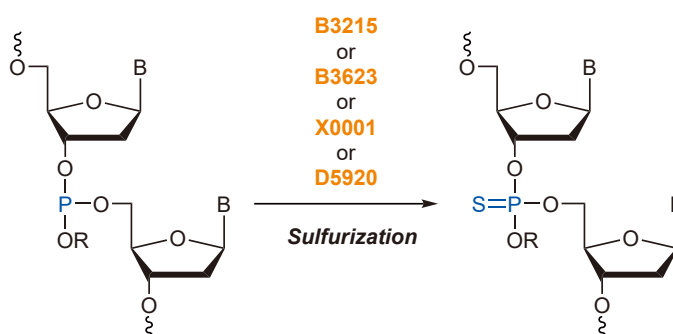
DDT
5g / 25g
[D5920]

*This product is unavailable in the U.S.

Advantages

- Suitable for the Phosphoramidite Method
- Available in 100 kg Scale (X0001)

Application



B3125,¹⁾ **B3623**,²⁾ **X0001**³⁻⁵⁾ and **D5920**⁶⁾ are widely used as a sulfur-transfer reagent for synthesis of oligonucleotide phosphorothioates via the phosphoramidite method.

In particular, **X0001** and **D5920** has advantages because it does not yield oxidizing substances, carbon disulfide and cyanamide as the additional reaction products. For DNA/RNA synthesizer, **X0001** solution is used, such as 0.02 M solution in acetonitrile/pyridine (9:1),³⁾ or 0.20 M solution in pyridine.⁵⁾ **D5920** has a dmf-protected amino group compared with **X0001**, and is expected to be more stable than **X0001** in the solution state.

- References**
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