

Product Specification Sheet

Hyacinth™ BMT Solution

Activator for Chemical RNA and DNA Synthesis

Catalog Number: NC-0103

Product Name: Hyacinth BMT Solution

Description: 5-Benzylmercaptotetrazole
(also known as Benzylthiotetrazole, BTT)
in anhydrous Acetonitrile;
0.30 Molar solution

CAS Number Acetonitrile 75-05-8
 BMT 21871-47-6

Quality Assurance Data	Specification
Purity by HPLC at 220 nm	≥ 98.0 %
Refractive Index	1,355 – 1,357
Solubility	Clear, no precipitation
Water Content	≤ 20.0 ppm

Application Note

Hyacinth BMT Solution™ (5-Benzylmercapto-1H-tetrazole in anhydrous acetonitrile) is a chemical activator for RNA and DNA synthesis and is used as a substitute for 1H-Tetrazole, DCI and ETT. In case of RNA synthesis it is compatible with both TBDMS and TOM protected monomers. It improves RNA coupling yields to 99%, requires only 3 minutes coupling times, requires 50% less phosphoramidite for each coupling and is easy to handle.

Shipping: Ambient

Storage: Ambient. Store the solutions above 16°C to avoid crystallization of the Hyacinth BMT™.

For safety instructions see GHS label! The use of this product is strictly limited to trained personnel for professional manufacturing, laboratory, or research purposes. Final Fitness-For-Use must be determined by and is the sole responsibility of the end-user.