

## Tetrazole/Acetonitrile, 450 ml

Product No. **401173**  
Lot No. **15L009**  
Date of Manufacture **18NOV2015**

TEST	SPECIFICATION	RESULT
<b>Physical Inspection</b>		
Containers are inspected for correct label and lot number. Caps are tight with no signs of leakage	PASS	PASS
<b>Appearance</b>		
Contents should be a clear colourless liquid, free from visible foreign contamination	PASS	PASS
<b>Concentration</b>		
Tetrazole, a weak acid, is the proton source for monomer activation. Stoichiometry and concentration are critical for tetrazole and phosphoramidites to maintain efficient coupling. To verify proper stoichiometry, each finished lot of tetrazole is analyzed to ensure appropriate concentrations are maintained. The tetrazole concentration must be within +/- 3% of standard concentration.	97.0 – 103.0%	102.0%
<b>Water Content</b>		
Water is a critical concern for nearly every DNA synthesis reagent, especially those involved in coupling. Karl Fischer analysis is performed on each finished tetrazole lot to ensure minimum water content	≤ 50ppm	47ppm
<b>DNA Synthesis Use Test</b>		
Each lot of tetrazole is tested for its ability to adequately support DNA synthesis. The formulated tetrazole solution must exhibit ≥ 98% step yields for the synthesis of a heterogeneous test 18-mer	PASS	PASS

*For Research Use Only. Not For Use in Diagnostic Procedures.*

*Expiration Date: Two Years from Date of Manufacture*

**ISO9001 &  
ISO13485  
REGISTERED**

Warrington, UK

*Joe Birchall*  
Approved by: Quality Assurance

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