

New England Biolabs Certificate of Analysis

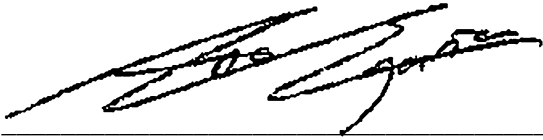
Product Name: *Tth Argonaute (TtAgo)*
Catalog Number: M0665S
Packaging Lot Number: 10148967
Expiration Date: 05/2024
Storage Temperature: -20°C
Storage Conditions: 10 mM Tris-HCl, 300 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, (pH 7.4 @ 25°C)
Specification Version: PS-M0665S v1.0

Tth Argonaute (TtAgo) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0665SVIAL	Tth Argonaute (TtAgo)	10149202	Pass
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10143500	Pass

Assay Name/Specification	Lot # 10148967
Functional Testing (Targeted Digestion) A 20 µl reaction in ThermoPol® Reaction Buffer containing 50 nM of a 98nt 5'FAM-labeled single-stranded DNA substrate and 250 nM of a 17nt 5'-phosphorylated single-stranded DNA guide with 12.5 nM Tth Argonaute (TtAgo) incubated for 15 minutes at 80°C results in ≥ 50% targeted digestion as determined by capillary electrophoresis.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart® Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 5 µl of Tth Argonaute (TtAgo) incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) Tth Argonaute (TtAgo) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of Tth Argonaute (TtAgo) is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass

This product has been tested and shown to be in compliance with all specifications.

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Ana Egana
Production Scientist
18 May 2022



Erin Varney
Packaging Quality Control Inspector
18 May 2022