

New England Biolabs Certificate of Analysis

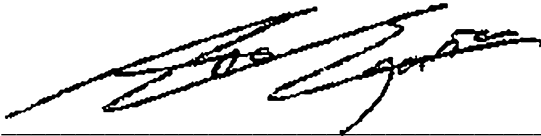
Product Name: *Tth Argonaute (TtAgo)*
Catalog Number: M0665S
Packaging Lot Number: 10065913
Expiration Date: 01/2022
Storage Temperature: -20°C
Storage Conditions: 10 mM Tris-HCl, 300 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, (pH 7.4 @ 25°C)
Specification Version: PS-M0665S v1.0

Tth Argonaute (TtAgo) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0665SVIAL	Tth Argonaute (TtAgo)	10065115	Pass
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10041932	Pass

Assay Name/Specification	Lot # 10065913
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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.



Ana Egana
Production Scientist
30 Jan 2020



Michael Tonello
Packaging Quality Control Inspector
30 Jan 2020