

## New England Biolabs Certificate of Analysis

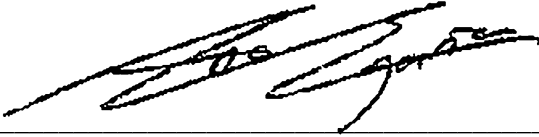
**Product Name:** *Tth Argonaute (TtAgo)*  
**Catalog Number:** M0665S  
**Packaging Lot Number:** 10116008  
**Expiration Date:** 08/2023  
**Storage Temperature:** -20°C  
**Storage Conditions:** 10 mM Tris-HCl, 300 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, (pH 7.4 @ 25°C)  
**Specification Version:** PS-M0665S v1.0

Tth Argonaute (TtAgo) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0665SVIAL	Tth Argonaute (TtAgo)	10116009	Pass
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10113098	Pass

Assay Name/Specification	Lot # 10116008
<b>RNase Activity (Extended Digestion)</b> 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
<b>Functional Testing (Targeted Digestion)</b> 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
<b>Protein Purity Assay (SDS-PAGE)</b> Tth Argonaute (TtAgo) is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
<b>Endonuclease Activity (Nicking)</b> 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

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

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30 Aug 2021



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Michael Tonello  
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30 Aug 2021