

Certificate of analysis

Product Name/Description: T7 RNA Polymerase, HQ
Cat. #: 2542A
Lot #: AMZC001
Storage Conditions: -20 degrees C
Expiration Date: Specified on product label or package

Package Size: 200000 U

Package Contents:

Package 1	1. T7 RNA Polymerase, HQ	200 U/μl	200 KU
Package 2	2. 10X IVT Reaction Buffer, HQ		10 ml

Quality Control Data:

T7 RNA polymerase, HQ

Test items	Methods	Specifications	Results
1) Appearance	Visual inspection	Clear, colorless solution	Passed
2) Protein concentration	HPLC	Actual value	425 μg/mL
3) Protein purity	SDS-PAGE	≥90%	99 %
4) Activity	Fluorometric assay	160 - 240 U/μL	210 U/μL
5) Exonuclease contamination	Incubation with Hind III-digested DNA	Not detectable	Passed
6) Endonuclease contamination	Incubation with supercoiled plasmid DNA	Not detectable	Passed
7) DNase contamination	Incubation with linear DNA	Not detectable	Passed
8) RNase contamination	Incubation with rRNA	Not detectable	Passed
9) Protease contamination	Fluorometric assay	Not detectable	Passed
10) Residual host DNA	qPCR	Not detectable	Passed
11) Residual host RNA	Fluorometric assay	Not detectable	Passed
12) Endotoxin	Turbidimetric assay	≤5 EU/mL	<3 EU/mL
13) Bioburden	Membrane filtration	<5 CFU/mL	0 CFU/mL

10X IVT Reaction Buffer, HQ

Test items	Methods	Specifications	Results
1) Appearance	Visual inspection	Clear, colorless solution	Passed
2) Functional test	Fluorometric assay	160 - 240 U/μL	Passed
3) Exonuclease contamination	Incubation with Hind III-digested DNA	Not detectable	Passed
4) Endonuclease contamination	Incubation with supercoiled plasmid DNA	Not detectable	Passed
5) DNase contamination	Incubation with linear DNA	Not detectable	Passed
6) RNase contamination	Fluorometric assay	Not detectable	Passed
7) Endotoxin	Turbidimetric assay	≤5 EU/mL	<3 EU/mL
8) Bioburden	Membrane filtration	<5 CFU/mL	0 CFU/mL

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department of Takara Bio Inc.

Notice To Purchaser:

Please refer to the website.

Product Documents, Patent Markings, Trademarks, & Safety Information:

Refer to website for availability to download or contact your local office:
www.takara-bio.co.jp (Japanese)
www.takarabio.com (English)

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