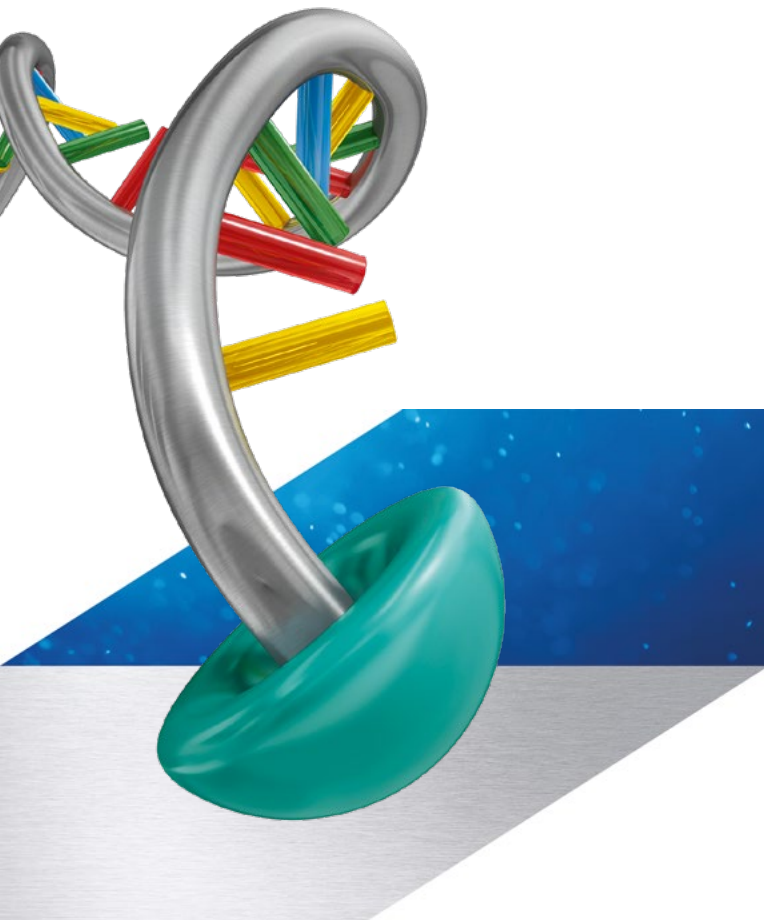


Fit-for-purpose T7 RNA Polymerase

Advance your mRNA therapeutics

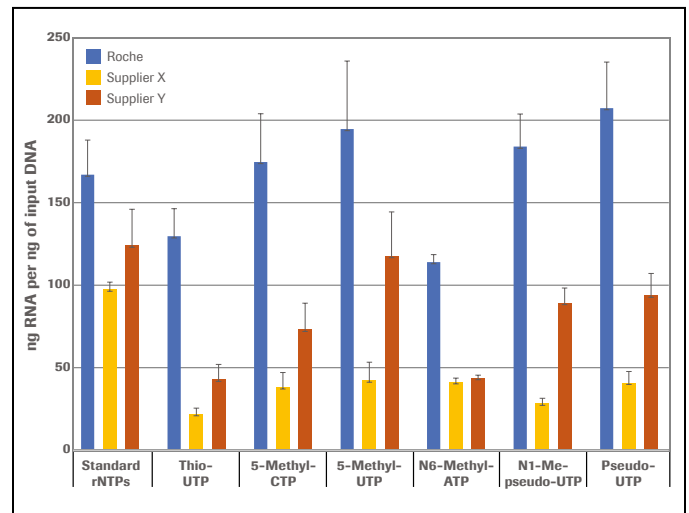
T7 RNA Polymerase is the key enzyme for in vitro transcription of mRNA. Designed fit-for-purpose to manufacture therapeutic mRNA, Roche CustomBiotech T7 RNA Polymerase provides the performance, stability, and versatility you need.



Produce high yields using a broad range of rNTPs

Our T7 RNA Polymerase provides versatility in your choice of nucleotides. Whether you use standard or modified nucleotides, expect the yield and efficiency needed to help speed development and production of your mRNA therapeutic.

Comparison of Roche T7 RNA Polymerase and two other suppliers' products using standard and modified NTPs



Data on file at Roche.

Scale and quality for your mRNA therapeutics

Roche T7 RNA Polymerase meets strict manufacturing and quality criteria, performs within narrow specifications, and is provided at the scale you need.

- Manufactured in a state-of-the-art facility under GMP quality standards
- Available in scale and quality for every stage — from development to manufacturing
- Backed by the expertise of a global pioneer in diagnostics and pharmaceuticals
- Meets fit-for-purpose requirements for therapeutic mRNA manufacturing:
Animal-free / Antibiotic-free / GMP Grade

Gain peace of mind with fit-for-purpose raw materials

Using fit-for-purpose raw materials enables you to focus on drug design and clinical studies, and increase certainty in your manufacturing process.

- Save time, effort, and cost by minimizing project delays and redesigns
- Satisfy quality and safety requirements for manufacturing
- Avoid the limitations of research-grade raw materials

Product portfolio

Product	Catalog number	Pack size	GMP Grade	Animal-free ²	β-Lactam-antibiotic-free	Tested for RNase / DNase activity	Extended impurity testing ¹
T7 RNA Polymerase, rec.	08 140 669 103	10 ml (ca 10 mg)	Yes	Yes	Yes	Yes	Yes
Pyrophosphatase, rec.	08 140 677 103	20 ml (ca 40 mg)	Yes	Yes	Yes	Yes	Yes
RNase Inhibitor, rec.	03 247 058 103	1.4 MU	Yes	Yes	Yes	Yes	In development
	04 488 105 103	100 kJ	Yes	Yes	Yes	Yes	No
DNase I, rec., RNase-free	03 539 121 103	Custom fill	In development	In development ³	Yes	Yes	In development
Ribonucleotides, 100 mM:							
ATP	04 980 824 103	100 ml	Yes	No ^{3,4}	Yes	Yes	No
CTP	04 980 875 103	100 ml	Yes	No ^{3,4}	Yes	Yes	No
GTP	04 980 859 103	100 ml	Yes	No ^{3,4}	Yes	Yes	No
UTP	04 979 818 103	100 ml	Yes	No ^{3,4}	Yes	Yes	No
Quality control							
Residual DNA <i>E. coli</i> Kit	07 728 735 001	96 reactions	N/A	N/A	N/A	N/A	N/A

¹ Includes testing for bioburden, endotoxin, host-cell DNA, host-cell protein, heavy metals.

² For details see Certificates of Origin.

³ TSE/BSE certificate available.

⁴ Orthogonal virus depletion steps included in manufacturing process (e.g., virus retentive filter). Further information on virus depletion study is available.

Residual DNA *E. coli* Kit is for use in quality control / manufacturing process only. All other products are for further processing only.

custombiotech.roche.com/mrna

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