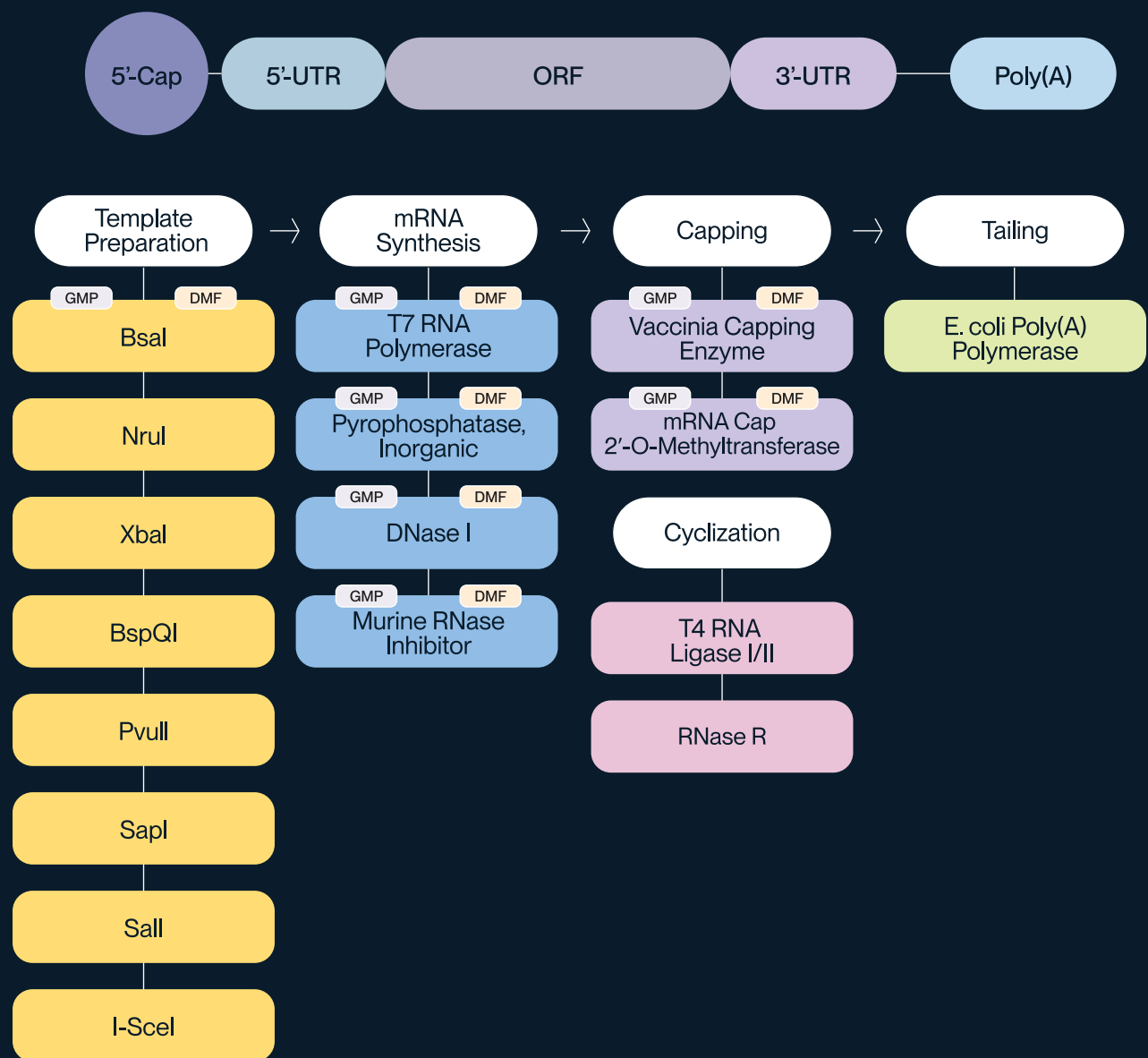


GMP-Grade mRNA Production Enzymes

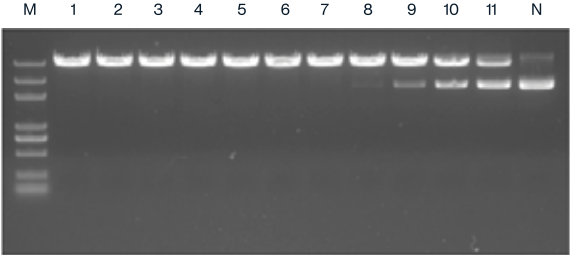


Restriction Enzymes

Bsal, GMP-Grade



BSA-free reaction system

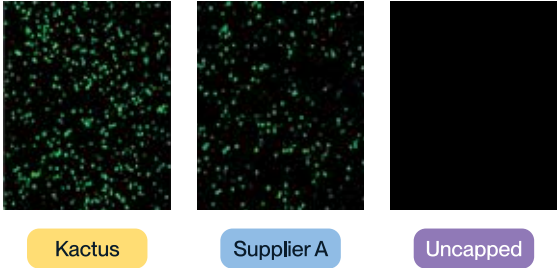


DNA plasmid digested using Bsal in a 2-fold serial dilution (lane 1 - 11) digestion reaction

Capping Enzymes

Vaccinia Capping Enzyme, GMP-Grade
 mRNA Cap 2'-O-Methyltransferase, GMP-Grade.

GFP mRNA capped with vaccinia capping system was transfected into 293T cells.



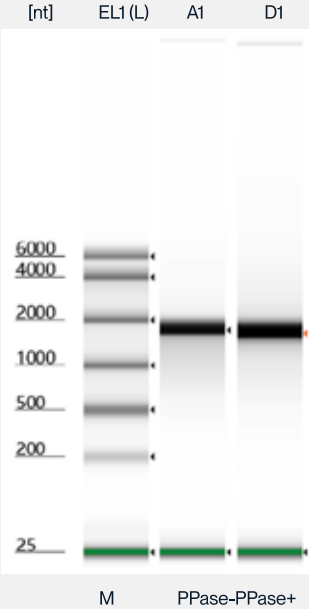
Kactus Supplier A Uncapped

KACTUS offers a one-step capping system for Cap0 and Cap1 structure.

In Vitro Transcription Enzymes

Pyrophosphatase, Inorganic

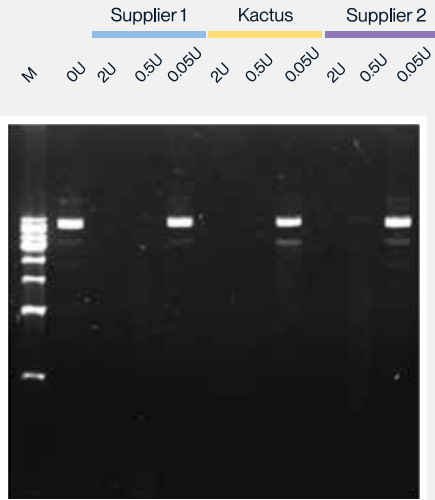
Increases mRNA yield



In vitro transcription yield with and without Inorganic Pyrophosphatase

DNase I

Digests single- & double-stranded DNA for mRNA purification



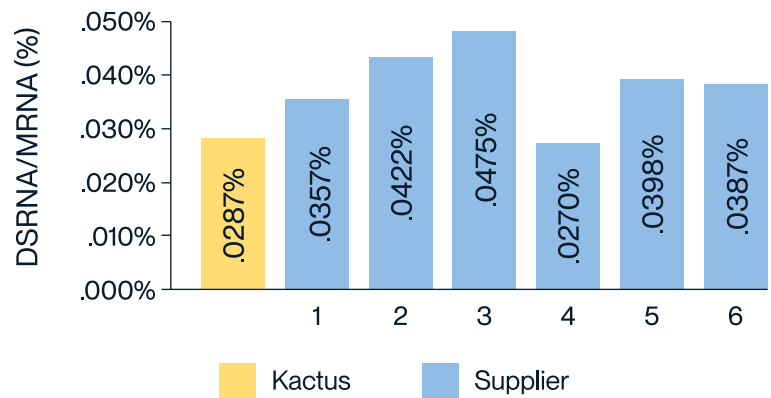
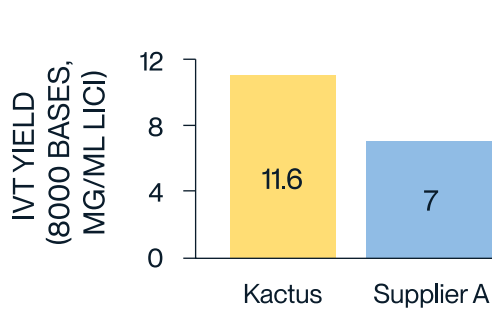
2U, 0.5U, and 0.05U of DNase I added to 1µg of DNA

T7 RNA Polymerase, GMP-Grade

FDA Drug Master Files
(DMF) #037660



Engineered to optimize yield & purity

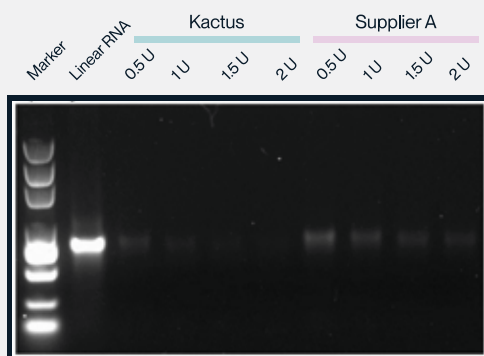


In Vitro Transcription Yield Using T7 RNA Polymerase. KACTUS T7 has 65% higher yield versus leading supplier.

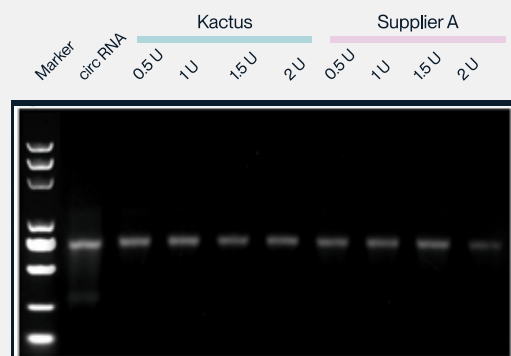
dsRNA Measured After *In Vitro* Transcription Using J2-based ELISA. KACTUS T7 has low dsRNA comparable or superior to leading suppliers.

Cyclization Enzymes

RNase R
For digestion of linear RNA



RNase R efficiently digests linear RNA



RNase R has no effect on circRNA

Description	Product Grade	Catalog #	Quantity
Bsal	GMP-Grade (DMF #037503)	GMP-BSA-EE101	20KU, 400KU
XbaI	GMP-Ready	XBA-EE101	2000U, 20KU
BspQI	GMP-Ready	BSP-BE101	1000U, 10KU
NruI	GMP-Ready	NRU-RE101	2000U, 20KU
PvuII	GMP-Ready	PVU-PE101	2000U, 20KU
SapI	GMP-Ready	SAP-SE101	1000U, 10KU
SalI	GMP-Ready	SAL-SE101	2000, 20KU
I-SceI	GMP-Ready	ISC-YE101	1000U, 10KU
T7 RNA Polymerase	GMP-Grade (DMF #037660)	GMP-T7P-EE101	50KU, 1MU
Pyrophosphatase, Inorganic	GMP-Grade (DMF #038030)	GMP-PYR-YE101	100U, 800U
DNase I	GMP-Grade (DMF #038032)	GMP-DNI-EE001	4000U, 40KU
Murine RNase Inhibitor	GMP-Grade (DMF #038031)	GMP-RNI-ME101	40KU, 2200KU
Vaccinia Capping Enzyme	GMP-Grade (DMF #038028)	GMP-VCS-VE101	10KU, 1MU
mRNA Cap 2'-O-Methyltransferase	GMP-Grade (DMF #038029)	GMP-MEH-VE101	50KU, 5MU
E.coli Poly (A) Polymerase	GMP-Ready	PLA-EE101	100U, 500U
T4 RNA Ligase I/II	GMP-Ready	TRL-BE101	600U, 3000U, 30KU
RNase R	GMP-Ready	RNR-EE001	500U, 2000U, 20KU

Request a test sample

