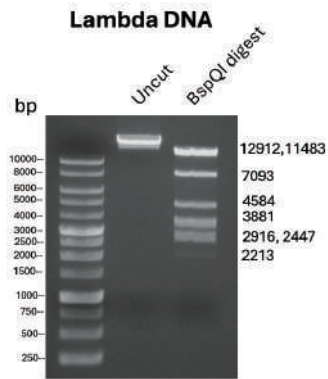


BspQI Precision Linearization for High-Quality IVT mRNA

Croyez BspQI is a restriction enzyme that recognizes the non-palindromic sequence 5'-GCTCTTCN1/N4-3'. Our data demonstrate that it provides precise cleavage with defined DNA fragments, and maintains stable linearization results even after extended reaction times, making it highly suitable for IVT mRNA production and gene therapy workflows.



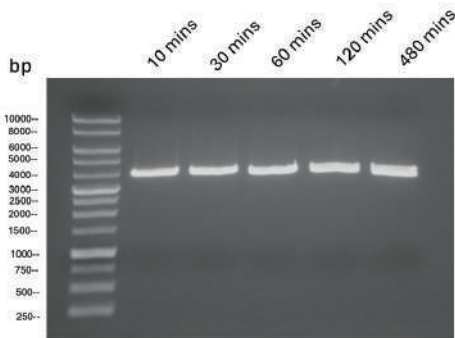
Precise Digestion

One unit of BspQI is defined as the amount of enzyme required to digest 1 µg of λ DNA in one hour at 50°C in a total reaction volume of 50 µL.

- Uncut λ DNA shows intact, full-length DNA.
- BspQI digestion produces defined fragments
- Demonstrates high specificity and efficient cleavage.



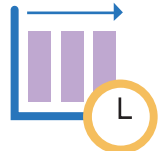
Plasmid linearization by BspQI digestion



Consistent Linearization for IVT mRNA

One microgram of plasmid DNA is digested by 1µL BspQI at 50°C in a total reaction volume of 50 µL for 10 mins to 480 mins.

- Supercoiled plasmid quickly converts to linear DNA.
- Stable up to 480 min with no degradation.
- Low star activity ensures reliable results.



Application Highlights

IVT

IVT mRNA Production

Precise plasmid linearization for clean templates

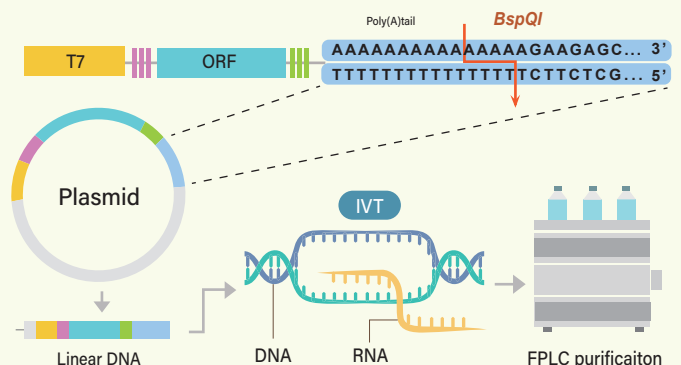
Gene Therapy

Reliable digestion supporting GMP compliance



mRNA Vaccines

Ensures consistent RNA quality for large-scale production



• GMP grade mRNA related Product

• RUO grade

Cat#	Product	Package	Cat#	Product	Package
C15052 - GMP	GMP ® BspQI	2,500 U	C15052	RUO grade BspQI	2,500 U

From research to production, BspQI keeps you stable — connect with us to learn more.