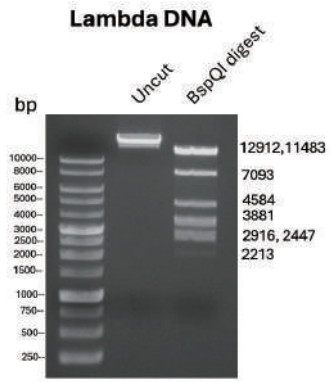
CROYEZ

BspQI Precision Linearization for High-Quality IVT mRNA

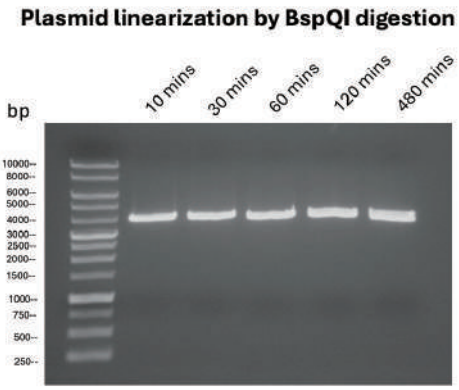
Croyez BspQI is a restriction enzyme that recognizes the non-palindromic sequence 5'-GCTCTTCN1/N4-3'.Our data demonstrate that it provides precise cleavage with defined DNA fragments, and maintains stable linearization results even after extended reaction times, making it highly suitable for IVT mRNA 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℃ in a total reaction volume of 50 μL.

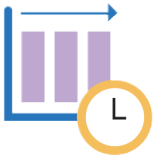
- **Uncut λ DNA shows intact, full-length DNA.**
- **BspQI digestion produces defined fragments**
- **Demonstrates high specificity and efficient cleavage.**



Consistent Linearization for IVT mRNA

One microgram of plasmid DNA is digested by 1 μL BspQ1 at 50℃ 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.**

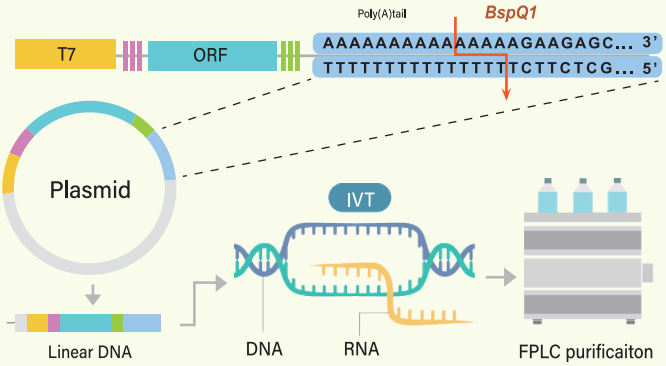


Application Highlights

IVT 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

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

• RUO grade

Cat#	Product	Package
C15052	BspQI	2,500 U

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