



10×BsaI Reaction Buffer

Product Number: M062012B

Animal-free

Ampicillin-free

Shipping and Storage

At -20±5°C.

Description

10×BsaI Reaction Buffer, GMP Grade is the matching reaction buffer for the restriction endonuclease BsaI (M062012). The formula is 100mM Tris HCl (pH 7.5), 100mM MgCl₂, 500mM NaCl, and 1mg/mL HSA.

This product is produced using pharmaceutical grade raw materials and strictly controls various types of pollution during the production process. It complies with GMP standards for product production and quality management, ensuring the traceability of the production process and all raw materials.

Item	Standard
Appearance	Clear liquid
Visible foreign objects	Compliant with regulations
PH	7.0-8.0
Residual endonuclease	The degradation of substrates does not exceed 10%
Residual exonuclease	The degradation of substrates does not exceed 10%
Bacterial endotoxin	<1EU/ml
Heavy metal residues	≤ 10ppm
Microbial limit	The total number of aerobic bacteria shall not exceed 1cfu/10ml, and the total number of mold and yeast shall not exceed 1cfu/10ml

Complying to following regulations

1. ISO 9001:2015, certified facility.
2. 《GMP Appendix – Cellular therapeutic product》 National Medical Products Administration.
3. 《The Pandect of Genetic Therapeutic Product for Human》 Chinese Pharmacopoeia Commission.
4. USP Chapter <1043>, Ancillary Materials for Cell, Gene, and Tissue-Engineered Products.
5. USP Chapter <92>, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.
6. Ph. Eur. General Chapter 5.2.12, Raw Materials of Biological Origin for the Production of Cell-based and Gene Therapy Medicinal Products.

Feature

This product is used for the restriction endonuclease BsaI cleavage reaction, providing suitable reaction conditions for it. The enzyme digestion reaction can be completed within 1-16 hours, and the reaction time can be selected according to the experimental arrangement. The enzyme digestion is fast and specific.

Package

Component	M062012B
10×BsaI Reaction Buffer, GMP Grade	500µl
10×BsaI Reaction Buffer, GMP Grade	5ml
10×BsaI Reaction Buffer, GMP Grade	10ml
10×BsaI Reaction Buffer, GMP Grade	50ml
10×BsaI Reaction Buffer, GMP Grade	250ml



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Reaction system (50µl)

Components	Quantity
10× BsaI Reaction Buffer, GMP Grade	5µl
Substrate DNA	1µg
BsaI, GMP Grade (10U/µl)	1µl
RNase Free Water	Up to 50µl

Incubate at 37°C for 1-16 hours, and the reaction time can be selected according to the experimental arrangement. The enzyme digestion is fast and specific, and the reaction can be terminated by incubating at 80°C for 20 minutes.

Note

BsaI is sensitive to certain methylation modifications. When using it, be careful not to use enzyme cleaved substrates that are not sensitive to BsaI methylation modifications (specific methylation sensitivity information can be found in the BsaI manual). If the enzyme cleaved product is used as an in vitro transcription template, it is recommended to use it after purification.

Related Products

Product Number	Product Name
GMP-M062	Vaccinia Capping Enzyme, GMP Grade
GMP-RI01	RNase Inhibitor, GMP Grade
GMP-M072	mRNA Cap 2'O Methyltransferase, GMP Grade
GMP-DI05	DNase I Recombinant GMP grade
GMP-M012	Poly(A) Polymerase, GMP Grade
GMP-M036	Pyrophosphatase, Inorganic (yeast), GMP Grade
GMP-T701	T7 RNA Polymerase, GMP Grade
M062012	BsaI, GMP Grade
D1331	dATP 100mM solution
D2331	dGTP 100mM solution
D3331	dCTP 100mM solution
D4331	dTTP 100mM solution
N5331	N1-Me-Pseudo-UTP,100mM Solution