

AppearanceClear, no visible particlesPassConcentrationThe error range is within 5%PassA260/2801.8 - 2.0PassA260/230>2.0PassSupercoiled contentNo requestN/AResidual RNANot visible upon electrophoresisPassGenomic DNANot visible upon electrophoresisPassBioburden assayNo growth on the agar plate after 24 hoursN/AEndotoxin TestVerified, (Endo-Free Preps Only)N/ALabelCorrect and whitePassSequencingCorrectPassCommentsImage: CorrectPassCommentsImage: CorrectPassCommentsImage: CorrectPassCommentsImage: CorrectPassCommentsImage: CorrectPassCommentsImage: CorrectPassCommentsImage: CorrectPassImage: Plasmid digested by Xhol-ApalImage: Plasmid digested by Xhol-Apal		Certificate	of Analysis		
Quantity 100ug Resistance Ampicillin QC Results QC Results Test Items Specifications Results Appearance Clear, no visible particles Pass Concentration The error range is within 5% Pass A260/280 1.8 - 2.0 Pass A260/230 >2.0 Pass Supercoiled content No request N/A Residual RNA Not visible upon electrophoresis Pass Genomic DNA Not visible upon electrophoresis Pass Bioburden assay No growth on the agar plate after 24 hours N/A Endotoxin Test Verified, (Endo-Free Preps Only) N/A Label Correct Pass Comments - - Restriction Digestion Map - - Marker 1 2 M Description of Map Image: Plass Lane1: Plasmid DNA Lane2: Plasmid digested by Xhol-Apal	Vector Name	pET-32a (+)	Catalog No.	V010987	
QC Results Test Items Specifications Results Appearance Clear, no visible particles Pass Concentration The error range is within 5% Pass A260/280 1.8 - 2.0 Pass A260/230 >2.0 Pass Supercoiled content No request N/A Residual RNA Not visible upon electrophoresis Pass Genomic DNA Not visible upon electrophoresis Pass Bioburden assay No growth on the agar plate after 24 hours N/A Endotoxin Test Verified, (Endo-Free Preps Only) N/A Label Correct and white Pass Sequencing Correct Pass Comments - - Marker 1 2 M Description of Map Lane1: Plasmid DNA Lane2: Plasmid digested by Xhol-Apal	Project/Lot No.	G0312158-1 /E82039	Strain	DH10B	
Test Items Specifications Results Appearance Clear, no visible particles Pass Concentration The error range is within 5% Pass A260/280 1.8 - 2.0 Pass A260/230 >2.0 Pass Supercoiled content No request N/A Residual RNA Not visible upon electrophoresis Pass Genomic DNA Not visible upon electrophoresis Pass Restriction Analysis Conforms to reference Pass Bioburden assay No growth on the agar plate after 24 hours N/A Label Correct and white Pass Sequencing Correct and white Pass Comments - - Image: Image: Pass Marker 1 2 M Description of Map Image: Pass Image: Plasmid digested by Xhol-Apal Pass	Quantity	100ug	Resistance	Ampicillin	
AppearanceClear, no visible particlesPassConcentrationThe error range is within 5%PassA260/2801.8 - 2.0PassA260/230>2.0PassSupercoiled contentNo requestN/AResidual RNANot visible upon electrophoresisPassGenomic DNANot visible upon electrophoresisPassBioburden assayNo growth on the agar plate after 24 hoursN/AEndotoxin TestVerified, (Endo-Free Preps Only)N/ALabelCorrect and whitePassSequencingCorrectPassCommentsImage: CorrectPassCommentsImage: CorrectPassCommentsImage: CorrectPassCommentsImage: CorrectPassCommentsImage: CorrectPassCommentsImage: CorrectPassCommentsImage: CorrectPassImage: Plasmid digested by Xhol-ApalImage: Plasmid digested by Xhol-Apal		QC Re	esults		
ConcentrationThe error range is within 5%PassA260/2801.8 - 2.0PassA260/230>2.0PassSupercoiled contentNo requestN/AResidual RNANot visible upon electrophoresisPassGenomic DNANot visible upon electrophoresisPassRestriction AnalysisConforms to referencePassBioburden assayNo growth on the agar plate after 24 hoursN/AEndotoxin TestVerified, (Endo-Free Preps Only)N/ALabelCorrect and whitePassSequencingCorrectPassCommentsRestriction Digestion MapMarker12MDescription of MapLane1: Plasmid DNALane2: Plasmid digested by Xhol-Apal	Test Items	Specifications		Results	
A260/280 1.8 - 2.0 Pass A260/230 >2.0 Pass Supercoiled content No request N/A Residual RNA Not visible upon electrophoresis Pass Genomic DNA Not visible upon electrophoresis Pass Restriction Analysis Conforms to reference Pass Bioburden assay No growth on the agar plate after 24 hours N/A Endotoxin Test Verified, (Endo-Free Preps Only) N/A Label Correct and white Pass Sequencing Correct Pass Comments - - Marker 1 2 M Description of Map Lane1: Plasmid DNA Lane2: Plasmid digested by Xhol-Apal	Appearance	Clear, no visible particles		Pass	
A260/230 >2.0 Pass Supercoiled content No request N/A Residual RNA Not visible upon electrophoresis Pass Genomic DNA Not visible upon electrophoresis Pass Restriction Analysis Conforms to reference Pass Bioburden assay No growth on the agar plate after 24 hours N/A Endotoxin Test Verified, (Endo-Free Preps Only) N/A Label Correct and white Pass Sequencing Correct Pass Comments - - Marker 1 2 M Description of Map Image: Plasmid DNA Lane1: Plasmid DNA Lane2: Plasmid digested by Xhol-Apal	Concentration			Pass	
Supercoiled content No request N/A Residual RNA Not visible upon electrophoresis Pass Genomic DNA Not visible upon electrophoresis Pass Restriction Analysis Conforms to reference Pass Bioburden assay No growth on the agar plate after 24 hours N/A Endotoxin Test Verified, (Endo-Free Preps Only) N/A Label Correct and white Pass Sequencing Correct Pass Comments - - Marker 1 2 M Description of Map Image: Plassing digested by Xhol-Apal Image: Plasmid digested by Xhol-Apal Image: Plasmid digested by Xhol-Apal	A260/280			Pass	
Residual RNA Not visible upon electrophoresis Pass Genomic DNA Not visible upon electrophoresis Pass Restriction Analysis Conforms to reference Pass Bioburden assay No growth on the agar plate after 24 hours N/A Endotoxin Test Verified, (Endo-Free Preps Only) N/A Label Correct and white Pass Sequencing Correct Pass Comments Pass Pass Marker 1 2 M Description of Map Lane1: Plasmid DNA Lane1: Plasmid DNA	A260/230	>2.0		Pass	
Genomic DNA Not visible upon electrophoresis Pass Restriction Analysis Conforms to reference Pass Bioburden assay No growth on the agar plate after 24 hours N/A Endotoxin Test Verified, (Endo-Free Preps Only) N/A Label Correct and white Pass Sequencing Correct Pass Comments - - Marker 1 2 M Description of Map Label Image: Plasmid DNA Lane1: Plasmid DNA Label Lane2: Plasmid digested by Xhol-Apal	Supercoiled content	No request		N/A	
Restriction Analysis Conforms to reference Pass Bioburden assay No growth on the agar plate after 24 hours N/A Endotoxin Test Verified, (Endo-Free Preps Only) N/A Label Correct and white Pass Sequencing Correct Pass Comments - - Restriction Digestion Map - Marker 1 2 M Description of Map Image: Sequencing Sequ	Residual RNA	Not visible upon electrophoresis		Pass	
Bioburden assay No growth on the agar plate after 24 hours N/A Endotoxin Test Verified, (Endo-Free Preps Only) N/A Label Correct and white Pass Sequencing Correct Pass Comments - - Marker 1 2 M Description of Map Marker 1 2 M Lane1: Plasmid DNA Lane1: Plasmid digested by Xhol-Apal	Genomic DNA	Not visible upon electrophoresis		Pass	
Endotoxin Test Verified, (Endo-Free Preps Only) N/A Label Correct and white Pass Sequencing Correct Pass Comments - - Restriction Digestion Map Marker 1 2 M Description of Map Marker 1 2 M Lane1: Plasmid DNA Lane2: Plasmid digested by Xhol-Apal Lane2: Plasmid digested by Xhol-Apal	Restriction Analysis	Conforms to reference		Pass	
Label Correct and white Pass Sequencing Correct Pass Comments - - Restriction Digestion Map Marker 1 2 M Description of Map Lane1: Plasmid DNA Lane2: Plasmid digested by Xhol-Apal	Bioburden assay	No growth on the agar plate after 24 hours		s N/A	
Sequencing Correct Pass Comments - - Restriction Digestion Map Marker 1 2 M Description of Map Lane1: Plasmid DNA Lane2: Plasmid digested by Xhol-Apal	Endotoxin Test			N/A	
Comments - Restriction Digestion Map Marker 1 2 M Description of Map Image: Plasmid DNA Image: Plasmid digested by Xhol-Apal	Label	Correct and white		Pass	
Restriction Digestion Map Marker 1 2 M Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map Image: Description of Map	Sequencing	Correct		Pass	
Marker 1 2 M Description of Map Image: Base Store Sto	Comments			-	
Lane1: Plasmid DNA Lane2: Plasmid digested by Xhol-Apal		Restriction D	igestion Map		
Lane1: Plasmid DNA	Marker	1 2 M	Descrip	Description of Map	
Lane2: Plasmid digested by Xhol-Apal			Lane1: Plasmid DNA		
	5000	Lane2: Plasmid digested		ted by Xhol-Apal	
(4326 bp + 1574 bp in theory)	2500		(4326 bp + 1574 bp in the		
— <u> </u>	1500	acces			
Lane M: DNA Marker			Lane M: DNA Marker		

Certified by: Chou Fang

Date: <u>Mar/25/2024</u> Valid until: <u>Mar/25/2026</u>

Ē