

## **Certificate of Analysis for NR-13309**

## Plasmid pMRLB.59 Containing Gene Rv3914 (Protein TrxC) from *Mycobacterium tuberculosis* for Expression in *Mycobacterium smegmatis*

Catalog No. NR-13309

This reagent is the tangible property of the U.S. Government.

**Product Description:** NR-13309 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv3914, which encodes the protein thioredoxin, TrxC. Gene Rv3914 was amplified by PCR and cloned into pVV16 for expression in *Mycobacterium smegmatis*.

Lot: 07.EC.05.23 Manufacturing Date: 23MAY2007

TEST	SPECIFICATIONS	RESULTS
Agarose Gel Electrophoresis (see attached QC Gel) <sup>1</sup> Linearization with Ndel Linearization with HindIII Digestion with Ndel and HindIII	~ 6.169 kb ~ 6.169 kb ~ 0.347 kb (insert); ~ 5.82 kb (vector)	~ 6.169 kb ~ 6.169 kb ~ 0.347 kb; ~ 5.82 kb
Concentration by OD <sub>260</sub>	Report results	0.08 μg/μL
Absorbance Ratio (OD <sub>260</sub> /OD <sub>280</sub> )	Report results	1.9

<sup>&</sup>lt;sup>1</sup>Performed by Colorado State University under the TB Vaccine Testing and Research Materials Contract (NIH)

**Date:** 31 AUGUST 2009 **Signature:** Signature on File

Title: Technical Manager, BEI Authentication or designee

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## QC gel

Restriction enzymes used in QC analysis:

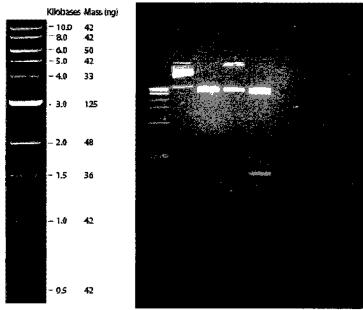
## Ndel & HindIII

Expected size of restriction fragments

Vector 5.822 kb pVV16 Insert 0.347 kb Rv3914

Other 6.169 kb linearized plasmid – single digests

Molecular weight markers New England Biolabs 1 kb DNA ladder



Left->right

NEB 1 kb ladder

pMRLB59.Rv3914 uncut

pMRLB59.Rv3914 - NdeI

pMRLB59.Rv3914 - HindIII

pMRLB59.Rv3914 – NdeI + HindIII

NEB 1 kb ladder

Generated by Millery Mile County

Date 10/15/2007

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