## Plasmid pMRLB.16 Containing Gene Rv0129c (Protein Ag85c) from *Mycobacterium tuberculosis*

### Catalog No. NR-13275

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

**Product Description:** NR-13275 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv0129c, which encodes fibronectin-binding protein C of the antigen 85 complex C (Ag85c). Gene Rv0129c was amplified by PCR and cloned into pET23b for expression in *Escherichia coli.*

**Lot: 03.EC.06.11**                                    **Manufacturing Date: 11JUN2003**

| TEST | SPECIFICATIONS | RESULTS |
|---|---|---|
| **Agarose Gel Electrophoresis (see attached QC Gel)[1]**<br>    Linearization with *Nde*I<br>    Digestion with *Nde*I and *Xho*I | ~ 4.54 kb<br>~ 0.88 kb (insert); ~ 3.66 kb (vector) | ~ 4.54 kb<br>~ 0.88 kb; ~ 3.66 kb |
| **Concentration by OD$_{260}$** | Report results | 0.1 µg/µL |
| **Absorbance Ratio (OD$_{260}$/OD$_{280}$)** | Report results | 1.9 |

[1]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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Page 1 of 2

QC gel
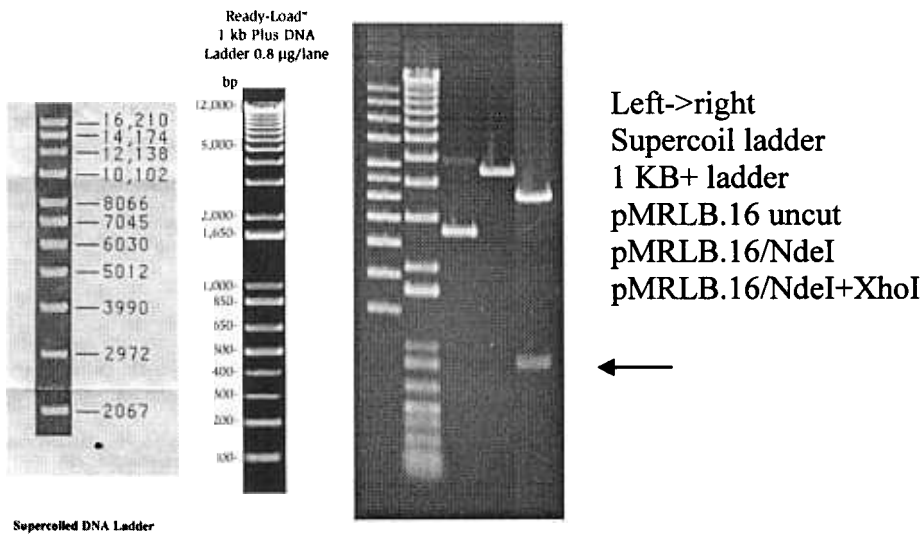
Restriction enzymes used in QC analysis     <u>NdeI, XhoI</u>

Expected size of restriction fragments

      Vector      <u>3.66 kb pET 23b</u>

                    <u>0.88 kb ag85c (leader sequence removed)</u>

                    <u>4.54 kb linearized plasmid</u>

Gel description      file number, % agarose, buffer      <u>kb49/0.8% agarose/1X TAE</u>

Molecular weight markers      <u>Invitrogen 1KB Plus, Invitrogen Supercoiled DNA Ladder</u>



Left->right
Supercoil ladder
1 KB+ ladder
pMRLB.16 uncut
pMRLB.16/NdeI
pMRLB.16/NdeI+XhoI

Generated by _____

Supervisor _____ 6-30-03

Form 4.2.03.JB