Table. S1. List of recombinant plasmids and bacterial strains used in this study

Plasmids		**Genotype**	**Source**
1.	pQE30	Amp^r, *E. coli* expression vector	Qiagen
2.	pRM1	pQE30 plasmid containing 288-bp *esxA*	This study
3.	pRM2	pQE30 plasmid containing 978-bp *fbpB*	This study
4.	pRM3	pQE30plasmid containing 1.27 Kb *fbpB-esxA*fusion fragment	This study
5.	pMW1	pQE30 plasmid containing 2.2 Kb protective antigen of *Bacillus anthracis* (*pag*)	(1)
Bacterial strains		**Genotype**	**Source**
1.	*Mycobacterium tuberculosis* H37Rv	Wild type (WT)	ATCC
2.	*E. coli* M15	F$^-$, *Φ80ΔlacM15*, *thi*, *lac*$^-$, *mtl*$^-$, *recA*$^+$, Km^R containing pREP4 plasmid	Qiagen
3.	RM1	*E. coli* M15 transformed with pRM1	This study
4.	RM2	*E. coli* M15 transformed with pRM2	This study
5.	RM3	*E. coli* M15 transformed with pRM3	This study
6.	MW1	*E. coli* M15 transformed with pMW1	This study

Table. S2. GC-MS peak report total ion chromatogram (TIC) of Mtb PLG

Peak No.	R.Time	Area	Area %	Name
1	12.765	588569	2.36	N-(4,4-DICYANO-3-PHENYL-1,3-BUTADIENYL) N,2,2-TRIMETHYLPROPANAMIDE
2	13.744	1533527	6.15	N-(4,4-DICYANO-3-PHENYL-1,3-BUTADIENYL)-N,2,2-TRIMETHYLPROPANAMIDE
3	13.993	448890	1.80	N-(4,4-DICYANO-3-PHENYL-1,3-BUTADIENYL)-N,2,2-TRIMETHYLPROPANAMIDE
4	14.637	1146314	4.60	CHROMIUM, PENTACARBONYL[1-(DIETHYLAMINO)-2 METHYL-3-PHENYL-3-(2-PROPENYLTHIO)-2 PROPENYLIDENE]
5	16.658	527463	2.12	Diethyl Phthalate
6	17.154	366835	1.47	HEPTANE, 3,5-DIMETHYL- 3,5DIMETHYLHEPTANE
7	18.497	544867	2.19	D-Glutamic acid, N-(pentafluoropropionyl)-, di(isopropyl) ester
8	**18.821**	**16184993**	**64.96**	**HEPTAFLUOROBUTYRYL-ISOBUTYL DERIVATIVE OF GLUTAMIC ACID**
9	20.410	939548	3.77	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester
10	22.524	643281	2.58	TRICOSANE
11	22.673	479557	1.92	Palmitic Acid, TMS derivative
12	24.033	1513100	6.07	Benzenemethanol, .alpha.,.alpha.-diphenyl

Figure S1: Authenticity and purity of antigens used in this study

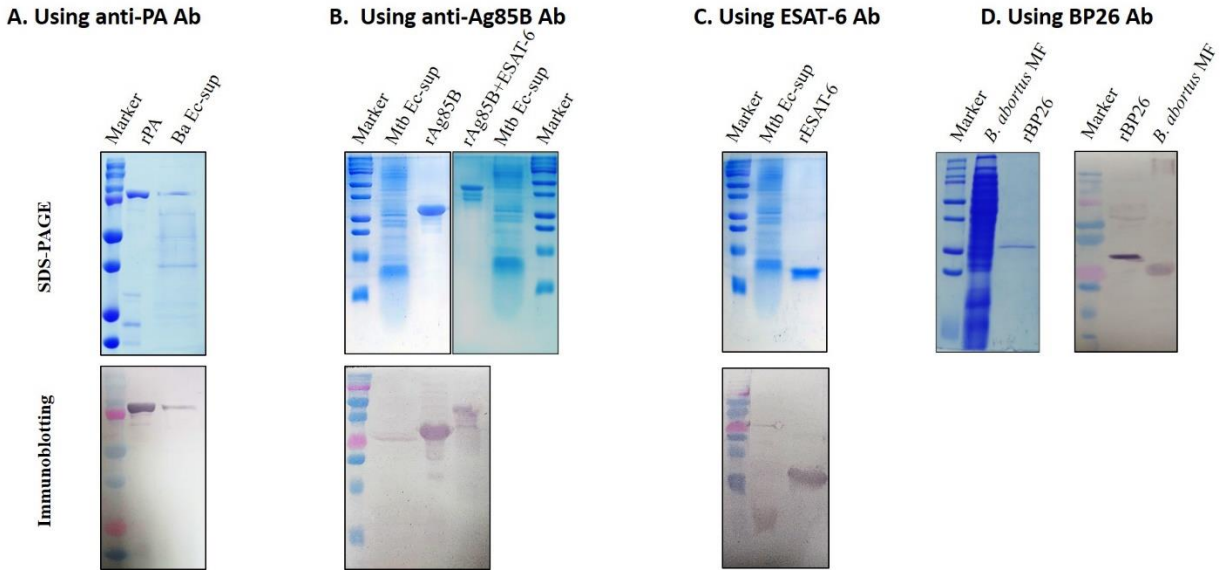

Figure S1. The authenticity and purity of the antigens used in this study, was ascertained by SDS-PAGE and immunoblotting analysis of the recombinant proteins alongside their native forms as positive controls. For immunoblotting, antibodies were raised in mice against the respective recombinant protein with multiple boosters. **A.** SDS-PAGE and immunoblotting analysis using anti-PA antibodies. rPA: recombinant PA expressed in *E. coli*, Ba Ec-sup: *Bacillus anthracis* cell culture supernatant. **B.** SDS-PAGE and immunoblotting analysis using anti-Ag85B antibodies. Mtb Ec-sup: Mycobacterium tuberculosis extracellular supernatant (culture filtrate), rAg85B: recombinant Ag85B expressed in *E. coli*, rAg85B-ESAT-6: a chimeric fusion of Ag85B and ESAT-6 antigens expressed in *E. coli*. **C.** SDS-PAGE and immunoblotting analysis using anti-ESAT-6 antibodies. rESAT-6: recombinant ESAT-6 antigen expressed in *E. coli* and **D.** SDS-PAGE and immunoblotting analysis using anti-BP26 antibodies. rBP26: recombinant BP26 antigen of *Brucella abortus*, expressed in *E. coli*, *B. abortus* MF: purified membrane fraction of *B. abortus*.

References

1. Gupta P, Waheed S, Bhatnagar R. 1999. Expression and purification of the recombinant protective antigen of *Bacillus anthracis*. Protein Expr Purif 16:369-376.