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中華民國實驗室認證體系
行政院環保署環境檢驗認證



Bactericidal Activity of 406-1K Immune Promoter Against Mycobacterium tuberculosis

Client	GreenTech Biotechnology Environmental Co., Ltd.	Report No.	SL93P9015
Client Address	3F, No. 97, Jingye first road, Taipei, Taiwan. Zip Code: 104		
Client Specimen I.D.	406-1K immune promoter	Date Received	April 16, 2004
Specimen I.D.	9015P01	Date Issued	June 15, 2004
Specimen description	Brown color in liquid, 25mL/bottle	Specimen collector: <input checked="" type="checkbox"/> Research Contract	
Remarks :			
<ol style="list-style-type: none"> 1. This report includes: 3 pages totally. It will be in vain if separated and/or partially copied. 2. The results in this report are valid only to the specimen sent by client. 3. All report content is used as references, not for advertising, sales promotion and notarial purpose. 			



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台美檢驗科技有限公司

地址：248 台北縣五股工業區五權六路15號6樓
電話：(02) 2298-1887、2298-1932
傳真：(02) 2290-2510



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Bactericidal Activity of 406-1K Immune Promoter Against *Mycobacterium tuberculosis*

1. Objective:

Evaluation of Bactericidal activity of 406-1K immune promoter against *Mycobacterium tuberculosis*.

2. Materials or Specimen:

406-1K immune promoter solution (provided by GreenTech Biotechnology Environmental Co., Ltd)

3. Tested Strain:

Mycobacterium tuberculosis

4. Tested Procedure:

- (1) Bacterial suspension for *Mycobacterium tuberculosis* strain was prepared by inoculated five or more different colonies to 7H9 broth, and its concentration was adjusted to McFarland 0.5 (approximately to 1.5×10^8 CFU/mL), after that ten-fold serial dilutions were carried out until the final concentration of suspension reached approximately 1.5×10^5 CFU/mL.
- (2) Suitable volume of 406-1K immune promoter solution was added to 7H11 broth which was autoclaved. After mixed homogeneously and colded down to 50 C, then the broth was poured into a sterile glass test tube.



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- (3) 0.01mL of bacterial suspension of *Mycobacterium tuberculosis* was added to the 7H11 agar tube. And also another 0.01mL of same bacterial suspension was added to another one of 7H11 agar tube which has not contained any 406-1k immune promoter, and this is control group.
- (4) All the culture tubes were incubated in 37 C incubator. The growth of bacterium was observed daily.

5. Results and Conclusion:

Tested strain (3.0×10^4 CFU) was inoculated individually to two 7H11 agar tubes, one agar tube which has contained 406-1K immune promoter, and another agar tube which has not contained any 406-1K immune promoter. After incubated in 37 C incubator for 21 days, we found that there is no growth for 7H11 agar tube which contained 406-1K immune promoter (experiment group) and grew on the agar tube which has no contained any 406-1K immune promoter (control group), see Figure 1. In conclusion, this study has proved that 406-1K is an effective bactericidal agent against *Mycobacterium tuberculosis*.

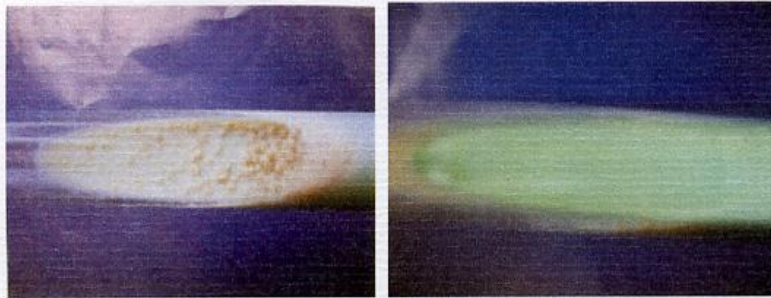


Figure 1: *Mycobacterium tuberculosis* was grew on the 7H11 agar tube which has not contained 401-1K immune promoter (left side) and no growth on another 7H11 agar tube which contained 401-1K immune promoter (right side).

Laboratory Director: *Wen-cherng Tsai, Ph. D.* R&D Manager: *Michael Lin*
Researcher:

June 15, 2004

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