



TEST REPORT

Report No. PLSC 05-59/006-01

- First test report.....
  - Additional test report of Report No. ....
  - New test report  Same sample  New sample and canceled test Report No.....
- Test.....

**Sample ID** PLSC 05-59/006 **Date of receipt** October 27, 2015  
**Sample Name** Powdered Drug **Customer** Probiotic & Herbal co, Ltd.  
**Description** Powder (green-brown) / normal  
**Content** -  
**Manufacturer** - **Distributor** -  
**Reg. No.** - **Lot/Batch No.** -  
**Mfg. Date** - **Exp. Date** -

**References** วิวัฒนา จิระจรรย์วิทยกุล. 2534. ยาและผลิตภัณฑ์จากธรรมชาติ. ภาควิชาเภสัชวินิจฉัย คณะเภสัชศาสตร์ มหาวิทยาลัยมหิดล  
 Evans, W.C. (ed). 2009. Trease and Evans pharmacognosy, 16<sup>th</sup> ed. Saunders Elsevier, London.  
 Wagner, H. and Bladt, S. 1996. Plant drug analysis: a thin layer chromatography atlas. Springer-Verlag, Heidelberg.

**Conclusion**

Tests	Results
Phytochemical Screening	
1. Tannins	Detected
2. Coumarins	Not Detected
3. Anthraquinones / Naphthoquinones	Not Detected
4. Iridoid glycosides	Not Detected
5. Cardiac glycosides	Detected
6. Saponin glycosides	Not Detected
7. Cyanogenic glycosides	Not Detected
8. Alkaloids (general tests)	Detected
9. Alkaloids (specific tests)	
9.1 Proto-alkaloids	
: Non-heterocyclic alkaloids, Atypical alkaloids	Detected
9.2 Purine alkaloids (Xanthine alkaloids)	Detected
9.3 Quinoline alkaloids	Not Detected
9.4 Indole alkaloids	Detected

**Verified by** ..... *Dujhathai Anekchai* .....  
 (Ms.Dujhathai Anekchai)  
 Technical Manager  
 26 / Nov / 2015

**Approved by** ..... *A. Sakunphueak* .....  
 (Dr.Athip Sakunphueak)  
 Assistant Dean for Academic Service  
 27 / Nov / 2015



**TEST REPORT**

Report No. PLSC 05-59/006-01

Tests	Results
9.5 Tropane alkaloids	Detected
9.6 Isoquinoline alkaloids	Detected

\* Tested by ..... (Subcontractor)

Number of attached document 2 documents

**Remark Test Report valid for this batch only. Test Report shall not be reproduced except in full, without written approval of Pharmaceutical Laboratory Service Center.**

Verified by Dujhathai Anekchai  
(Ms.Dujhathai Anekchai)

Technical Manager

26 / Nov / 2015

Approved by A. Sakunphueak  
(Dr.Athip Sakunphueak)

Assistant Dean for Academic Service

27 / Nov / 2015



## ATTACHED DOCUMENT No. I

Sample ID	PLSC 05-59/006
Sample Name	Powdered Drug.
Description	Powder (green- brown) / normal.
Test	Phytochemical Screening
Reference	วิณา จิรัจฉรียากุล. 2534. ยาและผลิตภัณฑ์จากธรรมชาติ. ภาควิชาเภสัชวินิจฉัย คณะเภสัชศาสตร์ มหาวิทยาลัยมหิดล Evans, W.C. (ed). 2009. <i>Trease and Evans pharmacognosy</i> , 16 <sup>th</sup> ed. Saunders Elsevier, London. Wagner, H. and Bladt, S. 1996. <i>Plant drug analysis: a thin layer chromatography atlas</i> . Springer-Verlag, Heidelberg.

## Results

1. Phytochemical Screening

Test	Results
1. Tannins Test.	Tannins were detected
2. Coumarins Test.	Coumarins were undetected
3. Anthraquinones/ Naphthoquinones Test.	Anthraquinones/ Naphthoquinones were undetected
4. Iridoid glycosides Test.	Iridoid glycosides were undetected
5. Cardiac glycosides Test.	Cardiac glycosides were detected
6. Saponin glycosides Test.	Saponin glycosides were undetected
7. Cyanogenic glycosides Test.	Cyanogenic glycosides were undetected
8. Alkaloids Test. (general tests)	Alkaloids were detected
9. Alkaloids Test. (specific tests)	9.1 Proto-alkaloids (Non-heterocyclic alkaloids, Atypical alkaloids) were detected 9.2 Purine alkaloids (Xanthine alkaloids) were detected 9.3 Quinoline alkaloids were undetected 9.4 Indole alkaloids were detected 9.5 Tropane alkaloids were detected 9.6 Isoquinoline alkaloids were detected

**Remark** Test Report valid for this batch only. Test Report shall not be reproduced except in full, without written approval of Pharmaceutical Laboratory Service Center.



Signature

*Jiraporn Khanansuk*

(Mrs.Jiraporn Khanansuk)

18 November 2015

*Sukanya Dej-adisai*

(Dr.Sukanya Dej-adisai)

18 November 2015

SD00443