



กรมวิทยาศาสตร์การแพทย์
Department of Medical Sciences

PROFICIENCY TESTING PROGRAM 2019

Scheme Code D6215R1

Bacterial Endotoxins Test

Protocol No. D6215R1

Organized by

Bureau of Drug and Narcotic
Department of Medical Sciences
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D6215R1: Bacterial Endotoxins Test

1. ORGANIZER

Scheme Provider:

Bureau of Drug and Narcotic (BDN)
Department of Medical Sciences
88/7 Soi Bumrasnaradura Hospital, Tiwanon Road, Nonthaburi,
11000, THAILAND
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Scheme Coordinator:

Ms. Siriphorn Laomanacharoen
Pharmacist, Senior professional level
Email: pt_bdn@hotmail.com; pts.bdn@gmail.com
The scheme coordinator is responsible for all activities of the PT scheme.

Scientific advisory:

Ms. Paveena Charoensit
Medical Scientist, Senior professional level
Email: pt_bdn@hotmail.com; pts.bdn@gmail.com
For any technical question, participants can contact scientific advisory.

2. OBJECTIVE

The objective of this Proficiency Testing (PT) scheme is to demonstrate that participants can correctly perform the test for bacterial endotoxins according to the method in harmonized pharmacopeia (USP, Ph.Eur., BP and JP).

3. SUBCONTRACT

BDN has no policy to subcontract in any activity of this proficiency testing scheme.

4. CRITERIA FOR PARTICIPATION

Participants should have competency and perform the test for bacterial endotoxins in the routine work. Each participant is able to participate in the program for one set of PT sample.

5. NUMBER AND TYPE OF PARTICIPANTS

Number of participants: 20 – 30 laboratories

Type of participants: Quality control laboratories in pharmaceutical manufacturers and other testing laboratories



6. SCHEDULE OF PT SCHEME

The frequency of this PT program is at least one round per 2 years. Schedule for the PT activities is as follows:

Activity	Schedule
Call for participation	December 2018
Deadline for registration	31 January 2019
Distribution of samples	June 2019
Deadline for submission of results	1 July 2019
Interim report for comments	August 2019
Final report	September 2019

7. REGISTRATION

Registration Fee: 5,000 Baht

Payment:

The payment should be made by Teller payment system at any branches of Krung Thai Bank Public Company Limited.

Method and Deadline for Registration:

Participants should register online via the website <https://www.bdn.go.th/pt> within **31 January 2019**. Registration by other means e.g. fax, Email will not be accepted.

Terms and Conditions:

1. BDN reserves the right to occasionally delay the issue of PT program or use an appropriate substitute test material with prior warning to participants if the planned PT sample is not available according to the schedule of PT scheme.
2. The registration fees are nonrefundable.

More information can be viewed on the website <https://www.bdn.go.th/pt>.

**** This scheme code is provided for local participants only.****

8. PROFICIENCY TESTING SAMPLE

The PT samples of this scheme are 3 aqueous solutions which may or may not contain bacterial endotoxins.



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9. HANDLING OF PT SAMPLE

Participants will receive (i) 1 vial containing 5 ml of sample A, (ii) 1 vial containing 5 ml of sample B and (iii) 1 vial containing 5 ml of sample C.

PT samples are packed in tightly closed containers and distributed in ambient condition. Upon receipt of samples, they should be stored at room temperature (below 30°C).

PT samples are sent by express mail. It is the responsibility of the participants to contact BDN within three days if they have not received the PT sample within the time schedule. Upon receipt of PT sample, participants are requested to check physical conditions of PT sample as well as other substances provided, complete a PT sample acknowledgement form and download testing protocol via the website <https://www.bdn.go.th/pt>.

10. TEST METHOD

Participants perform the test for bacterial endotoxins by using routine laboratory method.

11. ASSIGNED VALUE

Samples containing bacterial endotoxins not more than the limit shall comply the bacterial endotoxins test and report as “Pass”. If samples are found bacterial endotoxins more than the limit, they should be reported as “Fail”.

12. STANDARD DEVIATION FOR PROFICIENCY ASSESSMENT

N/A

13. PERFORMANCE EVALUATION

Participants will be evaluated by comparison with the assigned value. Participant’s result complied with the assigned value will be evaluated as satisfactory result.

14. POTENTIAL MAJOR SOURCES OF ERRORS

1. MVD calculation
2. Inhibition/enhancement of samples
3. Depyrogenation of equipment and glassware
4. Lysate sensitivity and method used
5. Dilution and pipetting technique
6. Incubating of reaction tubes
7. Reporting of the results



15. REPORT

An interim report is issued to provide each participant with an early indication of performance. In general, the interim report is issued about two months after the deadline for submission of results via the website <https://www.bdn.go.th/pt>. Participants are requested to check and review for any corrections and/or comments. The final report is issued via the website <https://www.bdn.go.th/pt> after the corrections and/or comments of interim report have been completed.

The report includes the following information.

- Introduction: general description of PT scheme
- Name and contact details of proficiency testing provider and scheme coordinator
- Participation: information of participating laboratories
- PT samples: description, sample preparations
- Homogeneity and stability assessment
- Assigned values
- Results:
- Discussion of results: conclusion of overall performances and comments on participant's performances
- Potential major sources of errors

16. CONFIDENTIALITY, COLLUSION AND FALSIFICATION OF RESULTS

The identities of participants are protected by means of laboratory codes which are randomly assigned in each PT round. These codes are confidential and are not disclosed to other persons unless agreed by the participant for a regulatory or recognition purpose. Participants can access their personal information in the website <https://www.bdn.go.th/pt> by using username and password which can keep their information confidentially. For security purpose, participants are recommended to change username and password in case of changing the responsible person who can access the information in the website.

This PT scheme is conducted in the belief that participants will perform the test and report results with scientific professional. Where any collusion between participants or falsification of results is proven by BDN, the result of that participant for the PT round concerned will be cancelled for performance evaluation.

17. LOST OR DAMAGED OF PROFICIENCY TESTING SAMPLE

In case of lost or damaged PT samples, participants should immediately inform BDN. The damaged PT samples should be returned to BDN. Replacement will be arranged within 1 week if the PT samples are proved to be lost or considered not suitable for analysis.