1. **Objective**
   This program is designed to help participating labs to demonstrate their competency on the food microbiology testing in different economies, to create opportunities for laboratories to improve, and at last to try to establish a kind of equivalence.

2. **Organization and Responsibilities**
   This program was organized by China National Accreditation Service for Conformity Assessment (CNAS), with Analysis Capability Assessment System (ACAS) of Chinese Academy of Inspection and Quarantine (CAIQ) as the collaborator, under the auspices of Asia Pacific Laboratory Accreditation Cooperation (APLAC).

   During this proficiency testing program, CNAS will be responsible for proposing this program to be approved by APLAC Proficiency Testing Committee, inviting participants, circulating the draft report and final report to participants and acting as a contact point among APLAC, participating accreditation bodies / participants, who will be responsible for preparing, packaging and dispatching samples, handling participants’ queries, receiving samples, evaluation of the receipt status for the samples, statistical analysis, and issuing interim and final reports.

3. **Points of contacts**
   The contact details are given below:
   Coordinator of organising accreditation body CNAS:
   
   Name: He Ping
   
   Add.: No.8 Nanhuashi, Dongcheng District, Beijing, 100062, China
   
   E-mail: heping@cnas.org.cn
   
   Tel: (+86) 10 6710 5290
Coordinator of the proficiency testing provider in CAIQ:
Name: Liu Hanxia (Ph.D) Lu Xing-an (Prof.)
Add.: A3 North Gaobeidian Road Chaoyang District, Beijing, P.R.China
Post Code: 100123
E-mail: liuhanxia.cn@163.com luxa@sina.com
Tel: (+86) 10 8578 1069

Contact of the proficiency testing provider in CAIQ:
Name: Ms. Zhang Xiaozhou (Jo)
E-mail: acas_international@126.com
Tel: (+86) 10 5748 7402 Fax: (+86) 10 8575 2707

4. Selection of Participants
APLAC members as well as other non-APLAC members will be invited to participate in the program. Invitations will be sent to all APLAC members and other accreditation bodies. Participating accreditation bodies will be asked to nominate laboratories to participate and indicate the accreditation status of the nominated laboratories for the test. Each accreditation body of APLAC members is invited to nominate up to a maximum of 4 laboratories. Each non-APLAC economy is invited to nominate up to a maximum of 2 laboratories to participate. The participants are required to conform to the relative biosafety standards.

5. Description of PTIs
The samples consist of freeze-dried bacteria and cryoprotectants in small glass vials, which are similar in nature to the food routinely tested by participating laboratories.

6. Properties Measured for Comparison and Requirement

7. Homogeneity & Stability Study
12 samples will be selected randomly from the prepared bottles of samples and analyzed in duplicate for determining homogeneity in accordance with the recommendation stipulated in ISO 13528. Three samples will be taken randomly and be analyzed in duplicate at temperatures below 30 °C and elevated temperature (about 40 °C) for monitoring the stability between sample dispatch
and after submission of results.

8. **Assigned Value**
   All counting results will be transferred in logarithm. The simple robust statistics will be applied to determine the assigned values. That’s to say, the median of the participants will be assigned values.

9. **Evaluation of the Performance**
   The performance will be evaluated against Z-scores
   \[
   z = \frac{x_i - X}{\sigma}
   \]

   \[
   | z | \leq 2.0 \quad \text{satisfactory}
   \]

   \[
   2.0 < | z | < 3.0 \quad \text{questionable}
   \]

   \[
   | z | \geq 3.0 \quad \text{unsatisfactory}
   \]

10. **Reporting to the Participants**
    After the results returning to CAIQ, interim report will be prepared and distributed. With the approval of APLAC, final report will be distributed.

11. **Confidentially**
    Participants in the reports will only be indicated by the lab codes.

12. **Program Schedule**

<table>
<thead>
<tr>
<th>Items</th>
<th>Period</th>
<th>Responsible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invitation of participants</td>
<td>Sep. 2014 – Nov. 2014</td>
<td>CNAS</td>
</tr>
<tr>
<td>Preparation of samples</td>
<td>Oct. 2014 - Nov. 2014</td>
<td>CAIQ</td>
</tr>
<tr>
<td>Dispatch of Samples</td>
<td>Dec. 2014</td>
<td>CAIQ</td>
</tr>
<tr>
<td>Statistical analysis of results</td>
<td>Feb. 2015</td>
<td>CNAS/CAIQ</td>
</tr>
<tr>
<td>Interim report</td>
<td>Feb. 2015</td>
<td>CNAS/CAIQ</td>
</tr>
<tr>
<td>Drafting final report</td>
<td>March 2015</td>
<td>CNAS/CAIQ</td>
</tr>
</tbody>
</table>

13. **Reference**