



# APLAC T060: Feeding Stuffs Proficiency Testing Program

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## INSTRUCTIONS TO ACCREDITATION BODIES

### 1. **INTRODUCTION**

The APLAC T060 : Feeding Stuffs is organized by Bureau of Laboratory Accreditation (BLA), Department of Science Service (DSS), Thailand. The objective of this proficiency testing program is to evaluate the competence of laboratories for quantitative testing of moisture, protein, fat, ash, calcium and phosphorus in feeding stuffs.

### 2. **SAMPLES**

Each laboratory is supplied with one feeding stuff sample about 40 g packed in laminated sealed bag. Upon receipt, AB should check the samples (number of bags, physical conditions, etc) and kindly complete the enclosed "RECEIPT FORM" (for Accreditation Bodies) and send to email [raviwan@dss.go.th](mailto:raviwan@dss.go.th) or fax to +662 201-7239.

### 3. **SAMPLE DISTRIBUTION**

AB should distribute samples to their nominated laboratories within one week of receipt. The samples shall be stored at room temperature (around 25° C) before dispatch.

### 4. **RESULTS**

The AB shall inform their participating laboratories to send results and submit to the organizer DSS no later than 7 September 2009 at [raviwan@dss.go.th](mailto:raviwan@dss.go.th).

### 5. **ENQUIRIES**

Please contact BLA-DSS for further enquiries at [raviwan@dss.go.th](mailto:raviwan@dss.go.th).



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## INSTRUCTIONS TO PARTICIPATING LABORATORIES

To ensure that results from this program can be analysed properly, participants are asked to adhere to the following instructions.

### 1. **SAMPLE**

- (a) Participants will receive one sample bag of about 40 g of feeding stuffs. The sample supplies to each laboratory is packed into laminated bag.
- (b) Store your sample in the original package at room temperature around 25°C (away from heat) until testing commences. After opening, the sample has to be used immediately.

### 2. **ANALYSIS**

- (a) Participants are required to determine the concentration of moisture, protein, fat, ash, calcium and phosphorus in feeding stuffs.
- (b) Participants should use routine test methods (could be accredited, in-house, modified, etc.) which would normally be used to test customer supplied samples and record the method used on the result sheet. Participants are requested to fill Method Information in Part II of RESULTS PROFORMA.

### 3. **RESULTS**

- (a) Report the moisture, protein, fat, ash, calcium and phosphorus in g/100g (as received sample), express the results to two decimal places.
- (b) Report the measurement uncertainty for each result as expanded uncertainty (g/100g) at 95% confident level.
- (c) Record the requested information in the results sheet (weight sample, temperature and drying time, ashing time and ashing temp etc.)

### 4. **DOCUMENT TO BE SUBMITTED**

Submit the completed RESULTS PROFORMA (Part I and Part II) to your accreditation body, and to Department of Science Service (DSS) on or before 7 September 2009 to email [raviwan@dss.go.th](mailto:raviwan@dss.go.th).

### 5. **ENQUIRES**

Additional information may be obtained from:

Dr. Raviwan Artsamang  
Department of Science Service  
75/7 Rama 6 Road Rachathewi District,  
Bangkok 10400 Thailand  
E-mail: [raviwan@dss.go.th](mailto:raviwan@dss.go.th)

Phone: +662 2017333

Fax: +662 2017239



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## PARTICIPATING LABORATORIES NOMINATION FORM

|                             |       |
|-----------------------------|-------|
| <b>Laboratory Name:</b>     |       |
| <b>Contact Person:</b>      |       |
| <b>Physical Address:</b>    |       |
| <b>Phone:</b>               |       |
| <b>Fax:</b>                 |       |
| <b>E-mail:</b>              |       |
| <b>Accredited for test:</b> | Y / N |

|                             |       |
|-----------------------------|-------|
| <b>Laboratory Name:</b>     |       |
| <b>Contact Person:</b>      |       |
| <b>Physical Address:</b>    |       |
| <b>Phone:</b>               |       |
| <b>Fax:</b>                 |       |
| <b>E-mail:</b>              |       |
| <b>Accredited for test:</b> | Y / N |

|                             |       |
|-----------------------------|-------|
| <b>Laboratory Name:</b>     |       |
| <b>Contact Person:</b>      |       |
| <b>Physical Address:</b>    |       |
| <b>Phone:</b>               |       |
| <b>Fax:</b>                 |       |
| <b>E-mail:</b>              |       |
| <b>Accredited for test:</b> | Y / N |

**From:**

(ACCREDITATION BODY)

Name : \_\_\_\_\_  
Organisation : \_\_\_\_\_  
Address : \_\_\_\_\_  
Email : \_\_\_\_\_  
Fax : \_\_\_\_\_



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## RECEIPT FORM FOR ACCREDITATION BODIES

In order to monitor the progress of this proficiency testing program, we kindly ask each participating accreditation body to fill out this Receipt Form and send it by fax or e-mail to:

Dr. Raviwan Artsamang  
Department of Science Service  
Fax: +662 2017239  
Phone: +662 2017333  
E-mail: raviwan@dss.go.th

The APLAC T060 Samples were received on : .....

**Comments** .....

.....

.....

**Name of Accreditation Body** : .....

**Country** : .....

**Contact Person** : .....

**E-mail** : .....

**Thank you in advance for your cooperation.**



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.....

.....

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**Accreditation Body:** .....

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## RESULTS PROFORMA

< Both Part I & II shall be completed by Participating Laboratory >

Laboratory Code Number : ..... Date of Analysis : .....

Name of Laboratory : .....

### Part I : Analytical Results

| Test               | Result (g/100g) | Expanded Measurement Uncertainty (g/100g)* |
|--------------------|-----------------|--|
| Moisture           |                 |  |
| Protein (N x 6.25) |                 |  |
| Fat                |                 |  |
| Ash                |                 |  |
| Calcium (Ca)       |                 |  |
| Phosphorus (P)     |                 |  |

\* Confidence level ~ 95 %

Report values to 2 significant figure or 2 decimal places, whichever is appropriate

**Note** : It is the responsibility of the participants to avoid collusion and falsification of result so as to ensure a reliable and effective assessment to be made by this proficiency testing programme



# APLAC T060: Feeding Stuffs Proficiency Testing Program

## RESULTS PROFORMA (Continued)

### Part II : Method Information

#### 1. Moisture

Is the method used Accredited?                      YES                      NO

Reference : .....

Sample weight (g) : .....

Oven temperature (°C) : .....

Duration time (hours) : .....

Desiccator used to cool the sample?                      YES                      NO

In case we have to separate the data in two groups.

group I : drying temperature  $103 \pm 2$  °C

group II : drying temperature  $135 \pm 2$  °C

#### 2. Protein

Is the method used accredited?                      YES                      NO

Reference : .....

Sample weight (g) : .....

Determination method : .....

Acid titration : .....

Catalyst : .....

#### 3. Fat

Is the method used accredited?                      YES                      NO

Reference : .....

Sample weight (g) : .....

Extraction

Acid hydrolysis prior to solvent extract

Solvent extract

Extraction solvent : .....

Total extraction time (hours) : .....



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## RESULTS PROFORMA (Continued)

### 4. Ash

Is the method used accredited?                    YES                    NO

Reference    : .....

Sample weight (g) :.....

Steps taken to avoid spattering   :.....

Ashing temperature (°C) :.....

Ashing time (hours) :.....

### 5. Calcium

Is the method used accredited?                    YES                    NO

Reference    : .....

Sample weight (g) :.....

Sample preparation    :            Wet digestion  
    Dry ashing  
    Other.....  
    (please specify)

Releasing agent    : .....

Analytical Instrument(s) :.....

### 6. Phosphorus

Is the method used accredited?                    YES                    NO

Reference    : .....

Sample weight (g) :.....

Sample preparation    :            Wet digestion  
    Dry ashing  
    Other.....  
    (please specify)

Analytical Instrument(s):.....  
    (Please specify wavelength in case of spectrophotometer is used)

Tick as appropriate