



SCOPE OF ACCREDITATION TO ISO/IEC 17043:2010

QUALITY ASSURANCE AND TESTING CENTER 3 (QUATEST 3)
PROFICIENCY TESTING DEPARTMENT

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PROFICIENCY TESTING PROVIDER

Valid To: September 30, 2017

Certificate Number: 3477.01

In recognition of the successful completion of the A2LA evaluation process, this proficiency testing provider has been found to meet the ISO/IEC 17043:2010, "Conformity assessment-General Requirements for Proficiency testing". Accreditation is granted to this provider to provide proficiency testing samples in the following programs:

| <u>PROGRAM NAME</u> | <u>SAMPLE MATRIX</u> | <u>TECHNIQUES USED TO DETERMINE ASSIGNED VALUE/ UNCERTAINTY</u> |
|---|-----------------------|--|
| 1. Chemistry in Food: 1.1 Lipid 1.2 Protein 1.3 Total Ash 1.4 Calcium 1.5 Lactose 1.6 Phosphorus | Milk powder | Assigned values and uncertainties determined by consensus values from participants |
| 2. Chemistry in Animal Feeding Stuffs: 2.1 Protein 2.2 Fat 2.3 Calcium 2.4 Phosphorus 2.5 Total Ash 2.6 Lysine | Animal feeding stuffs | Assigned values and uncertainties determined by consensus values from participants |

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|---|--|--|
| <p>2. Chemistry in Animal Feeding Stuffs:</p> <p>2.7 Salbutamol 2.8 Heavy Metals (Pb, Cd, As, Hg) 2.9 Aflatoxins</p> | Animal feeding stuffs | Assigned values and uncertainties determined by consensus values from participants |
| <p>3. Microbiology in Food:</p> <p>3.1 Total Aerobic Plate Count (Enumeration) 3.2 <i>E. coli</i> (Enumeration) 3.3. <i>Staphylococcus aureus</i> / coagulase-positive staphylococci (Enumeration) 3.4 Total Coliforms (Enumeration) 3.5 <i>Salmonella</i> (Detection) 3.6 <i>Listeria monocytogenes</i> (Detection) 3.7 Yeast and Mold (Enumeration) 3.8 <i>Vibrio parahaemolyticus</i> (Detection) 3.9 <i>Enterobacteriaceae</i> (Enumeration) 3.10 <i>Bacillus cereus</i> (Enumeration)</p> | Food (Meat, milk, cereal, aquatic products, nutritious powder, etc.) | Assigned values and uncertainties determined by consensus values from participants |
| <p>4. Chemistry in Fertilizer:</p> <p>4.1 Total nitrogen content 4.2 Available phosphorus content 4.3 Available potassium content 4.4 Silicon content (SiO₂) 4.5 Calcium content (Ca) 4.6 Magnesium content (Mg) 4.7 Sulfur content (S) 4.8 Iron content (Fe) 4.9 Zinc content (Zn) 4.10 Copper content (Cu) 4.11 Manganese content (Mn) 4.12 Total organic matter 4.13 Arsenic content (As) 4.14 Cadmium content (Cd) 4.15 Lead content (Pb) 4.16 Nickel content (Ni) 4.17 Chromium content (Cr)</p> | Fertilizer | Assigned values and uncertainties determined by consensus values from participants |

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| <p>5. Physics – Chemistry in Cement</p> <p>5.1 Compressive strength 3 days 5.2 Compressive strength 28 days 5.3 Water for consistent 5.4 Initial setting time 5.5 Final setting time 5.6 Soundness (Le Chatelier method) 5.7 Sieve 0.09 mm 5.8 Mass density 5.9 Surface fineness (Blaine) 5.10 Insoluble residue content 5.11 SO₃ content 5.12 MgO content 5.13 CaO content 5.14 Soluble Na₂O content 5.15 Soluble K₂O content 5.16 Al₂O₃ content 5.17 Fe₂O₃ content 5.18 SiO₂ content 5.19 Loss on ignition 5.20 Chloride content (Cl-)</p> | Cement | Assigned values and uncertainties determined by consensus values from participants |
| <p>6. Chemistry in Diesel Oil</p> <p>6.1 Sulfur content 6.2 Cetane index 6.3 Distillation: Initial boiling point (IBP), 10 % recovery, 50 % recovery, 90 % recovery, final boiling boil (EP) 6.4 Flash point closed cup 6.5 Kinematic viscosity at 40 °C 6.6 Pour point 6.7 Density at 15 °C</p> | Diesel oil | Assigned values and uncertainties assigned by consensus values from participants |
| <p>7. Chemistry in Lubricant</p> <p>7.1 Kinematic viscosity at 40 °C 7.2 Kinematic viscosity at 100 °C 7.3 Viscosity index 7.4 Flash point open cup 7.5 Total base number (TBN) 7.6 Density at 15 °C</p> | Lubricant | Assigned values and uncertainties assigned by consensus values from participants |

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|--|----------------------|--|
| 8. Chemistry in Fish Sauce 8.1 Nitrogen (N) 8.2 Ammonical nitrogen (N-NH ₃) 8.3 Sodium Chloride (NaCl) | Fish sauce | Assigned values and uncertainties assigned by consensus values from participants |



Accredited Proficiency Testing Provider

A2LA has accredited

QUALITY ASSURANCE AND TESTING CENTER 3 (QUATEST 3)

Dong Nai Province, VIETNAM

This accreditation covers the specific proficiency testing schemes listed on the agreed upon Scope of Accreditation.

This provider is accredited in accordance with the recognized International Standard ISO/IEC 17043: 2010 *Conformity assessment - General requirements for proficiency testing*. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.



Presented this 3rd day of July 2013.

President & CEO
For the Accreditation Council
Certificate Number 3477.01
Valid to September 30, 2017

For the proficiency testing schemes to which this accreditation applies, please refer to the provider's Scope of Accreditation.