



SCOPE OF ACCREDITATION TO ISO/IEC 17043:2023

QUALITY ASSURANCE OF VIETNAM  
Room 406, 4th Floor, No. 130 Nguyen Duc Canh Street  
Tuong Mai Ward, Hoang Mai District, Ha Noi, Vietnam  
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PROFICIENCY TESTING PROVIDER

Valid To: September 30, 2026

Certificate Number: 3633.01

In recognition of the successful completion of the A2LA evaluation process, this proficiency testing provider has been found to meet the ISO/IEC 17043:2023, "Conformity assessment - General Requirements for the competence of Proficiency Testing providers". Accreditation is granted to this provider to provide proficiency testing samples in the following programs:

| <u>PROGRAM NAME</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>SAMPLE MATRIX</u>                                                              | <u>FREQUENCY</u>                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|
| <b>1. Microbiology in Food:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                   |                                  |
| 1.1 <i>E. coli</i> , Coliform, Fecal Coliform<br>Enterobacteriaceae (Quantitative)<br>1.2 <i>Salmonella</i> spp (Qualitative)<br>1.3 <i>Listeria monocytogenes</i> (Qualitative,<br>Quantitative)<br>1.4 <i>Clostridium perfringens</i><br>(Quantitative)<br>1.5 <i>Vibrio parahaemolyticus</i> (Qualitative,<br>Quantitative)<br>1.6 <i>Vibrio cholerae</i> (Qualitative)<br>1.7 <i>Vibrio vulnificus</i> (Qualitative)<br>1.8 Staphylococci (Qualitative,<br>Quantitative)<br>1.9 Total yeasts and moulds<br>(Quantitative)<br>1.10 Presumptive <i>Bacillus cereus</i> ,<br><i>Bacillus</i> spp (Quantitative)<br>1.11 Total plate count (Quantitative) | Milk Powder, Milk<br>Product, Animal<br>Product, Seafood and<br>Fishery Products. | 1/year<br>As requested<br>2/year |

| <u>PROGRAM NAME</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <u>SAMPLE MATRIX</u>        | <u>FREQUENCY</u>                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------|
| <b>2. Microbiology in animal feed and Aquatic Feed:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |                                  |
| 2.1 <i>E. coli</i> , Coliform, Enterobacteriaceae (Quantitative)<br>2.2 <i>Salmonella</i> spp (Qualitative)<br>2.3 <i>Listeria monocytogenes</i> (Qualitative, Quantitative)<br>2.4 <i>Clostridium perfringens</i> (Quantitative)<br>2.5 <i>Vibrio parahaemolyticus</i> (Qualitative, Quantitative)<br>2.6 <i>Vibrio cholerae</i> (Qualitative)<br>2.7 <i>Vibrio vulnificus</i> (Qualitative)<br>2.8 Staphylococci (Qualitative, Quantitative)<br>2.9 Total yeasts and moulds (Quantitative)<br>2.10 Presumptive <i>Bacillus cereus</i> , <i>Bacillus</i> spp (Quantitative)<br>2.11 Total plate count (Quantitative) | Animal Feed<br>Aquatic Feed | 1/year<br>As requested<br>2/year |
| <b>3. Microbiology in water:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |                                  |
| 3.1 <i>E.coli</i> , Coliform, Fecal Coliform (Quantitative)<br>3.2 Total plate count (Quantitative)<br>3.3 <i>Salmonella</i> spp (Qualitative)<br>3.4 Clostridia (Quantitative)<br>3.5 Sulfite-reducing bacteria (Quantitative)<br>3.6 <i>Pseudomonas aeruginosa</i> (Quantitative)<br>3.7 Enterococci (Quantitative)                                                                                                                                                                                                                                                                                                 | Water                       | 1/year<br>As requested<br>2/year |
| <b>4. Microbiology in fertilizer:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |                                  |
| 4.1 <i>E.coli</i> (Quantitative)<br>4.2 <i>Salmonella</i> spp (Qualitative)<br>4.3 Microbial nitrogen fixing fertilizer (Quantitative)<br>4.4 Phosphate-soluble microbial fertilizer (Quantitative)<br>4.5 Cellulose-soluble microbial fertilizer (Quantitative)<br>4.6 Trichoderma (Quantitative)                                                                                                                                                                                                                                                                                                                    | Fertilizer                  | 1/year<br>As requested<br>2/year |
| <b>5. Aquaculture Viruses:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                             |                                  |
| All Schemes are Qualitative/Quantitative:<br>5.1 White Spot Syndrome Virus (WSSV)<br>5.2 Hepatopancreatic Parvovirus (HPV)<br>5.3 Infectious Hypodermal and Haematopoietic Necrosis Virus (IHHNV)<br>5.4 Yellow Head Virus (YHV)<br>5.5 Taura Syndrome (TSV)<br>5.6 Acute Hepatopancreatic Necrosis Disease (AHPND)<br>5.7 Monodon Baculovirus (MBV)                                                                                                                                                                                                                                                                  | Aquaculture Products        | 1/year<br>As requested<br>2/year |

| <u>PROGRAM NAME</u>                                                                                                                                                                                 | <u>SAMPLE MATRIX</u>                                                                                                                           | <u>FREQUENCY</u>                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>6. Avian Influenza Viruses:</b>                                                                                                                                                                  |                                                                                                                                                |                                  |
| All Schemes are Qualitative/Quantitative:<br>6.1 Type A<br>6.2 Type H5<br>6.3 Type N1                                                                                                               | Egg                                                                                                                                            | 1/year<br>As requested<br>2/year |
| <b>7. Analysis of Physicochemical in Animal and Aquaculture Feed/In Animal and Aquaculture Food, Food:</b>                                                                                          |                                                                                                                                                |                                  |
| All Schemes are Quantitative:<br>7.1 Protein<br>7.2 Ash<br>7.3 Lipid<br>7.4 Phosphorus<br>7.5 Calcium<br>7.6 Fiber<br>7.7 Sodium Chloride<br>7.8 Moisture<br>7.9 Ash insoluble in Hydrochloric acid | Animal and Aquaculture Feed<br>Animal and Aquaculture Food<br>Animal Products<br>Seafood and Fishery Products, Dry food<br>Candy, Cereals, Tea | 1/year<br>As requested<br>2/year |
| 7.10 Melamine                                                                                                                                                                                       | Milk, Animal Feed<br>Seafood and Fishery Products                                                                                              |                                  |
| 7.11 Ethoxyquin<br>7.12 pH                                                                                                                                                                          | Animal Feed<br>Supplement for<br>Animal feed, Meat and<br>Animal Products                                                                      |                                  |
| 7.13 Dexamethason<br>7.14 Histamine<br>7.15 Hydro sulfide<br>7.16 Nitrogen amonia<br>7.19 Boric acid<br>7.20 Borate salt                                                                            | Seafood and Fishery<br>Products                                                                                                                |                                  |
| 7.21 Spiramycin                                                                                                                                                                                     | Milk and Milk<br>products                                                                                                                      |                                  |
| 7.22 Impurities<br>7.23 Volatile matter                                                                                                                                                             | Animal and Vegetable<br>Fats and Oils                                                                                                          |                                  |
| 7.24 Carbendazim<br>7.25 Glucose<br>7.26 Fructose<br>7.27 Sucrose                                                                                                                                   | Honey                                                                                                                                          |                                  |
| 7.28 Sulfite<br>7.29 $\alpha$ -HCH<br>7.30 $\beta$ -HCH<br>7.31 $\gamma$ -HCH                                                                                                                       | Cereals<br>Vegetable                                                                                                                           |                                  |
| 7.32 Trichlorfon<br>7.33 Dichlorvos                                                                                                                                                                 | Seafood and Fishery<br>Products, Meat and<br>Animal Products                                                                                   |                                  |

| <u>PROGRAM NAME</u>                                                                                                                                                                                                    | <u>SAMPLE MATRIX</u>                                                                                                                             | <u>FREQUENCY</u>                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>8. Antibiotics and Chemicals in Food</b>                                                                                                                                                                            |                                                                                                                                                  |                                  |
| All Schemes are Quantitative:<br><br>8.1 Chloramphenicol<br>8.2 Malachite Green<br>8.3 Nitrofurans<br>8.4 Floroquinolone<br>8.5 Trifluralin<br>8.6 Fluofenicol<br>8.7 Neomycin<br>8.8. Sulfonamide<br>8.9 Trimethoprim | Animal and<br>Aquaculture Products<br>Animal and<br>Aquaculture Feed                                                                             | 1/year<br>As requested<br>2/year |
| 8.10 Tetracyclines                                                                                                                                                                                                     | Seafood and Fishery<br>Products, Milk and<br>milk products, Animal<br>Feed, Meat                                                                 |                                  |
| 8.11 β – agonist (Quantitative)                                                                                                                                                                                        | Animal Products,<br>Animal Feed                                                                                                                  |                                  |
| <b>9. Heavy Metals in Animal Feed, Aquatic Feed, Water, Food:</b>                                                                                                                                                      |                                                                                                                                                  |                                  |
| All Schemes are Quantitative:<br>9.1 Arsenic<br>9.2 Cadmium<br>9.3 Calcium<br>9.4 Copper<br>9.5 Iron<br>9.6 Lead<br>9.7 Magnesium<br>9.8 Manganese<br>9.9 Mercury<br>9.10 Zinc<br>9.11 Sn                              | Animal Feed, Water<br>Healthy food, Meat<br>Rice, Fishery products<br>Vegetable, Milk and<br>milk products,<br>Fertilizer, Soil,<br>Aquatic Feed | 1/year<br>As requested<br>2/year |
| <b>10. Pesticide residues in Food</b>                                                                                                                                                                                  |                                                                                                                                                  |                                  |
| 10.1 Multi-residue pesticides ( <i>Appendix 1</i> )                                                                                                                                                                    | Tea                                                                                                                                              | 1/year<br>As requested<br>2/year |
| 10.2 Multi-residue pesticides ( <i>Appendix 2</i> )                                                                                                                                                                    | Rice                                                                                                                                             |                                  |
| 10.3 Multi-residue pesticides ( <i>Appendix 3</i> )                                                                                                                                                                    | Agricultural products<br>Vegetable, Cereals                                                                                                      |                                  |

| <u>PROGRAM NAME</u>                                                                                                                                                                                                                                                                                                                                                                                                       | <u>SAMPLE MATRIX</u>                    | <u>FREQUENCY</u>                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------|
| <b>11. Chemistry in water</b>                                                                                                                                                                                                                                                                                                                                                                                             |                                         |                                  |
| 11.1 Total suspended solids (TSS)<br>11.2 Total dissolved solids (TDS)<br>11.3 Conductivity<br>11.4 Determination of total hardness (The sum of Calcium and Magnesium)<br>11.5 Total Nitrogen<br>11.6 pH<br>11.7 COD<br>11.8 BOD <sub>5</sub><br>11.9 Chlorua<br>11.10 Colour<br>11.11 Amonium<br>11.12 Permanganate index<br>11.13 Turbidity<br>11.14 Total alkalinity<br>11.15 Xyanua<br>11.16 Nitrate<br>11.17 Nitrite | Water                                   | 1/year<br>As requested<br>2/year |
| <b>12. Mycotoxins content in Food, Animal Feed</b>                                                                                                                                                                                                                                                                                                                                                                        |                                         |                                  |
| 12.1 Aflatoxin (B1, B2, G1, G2)<br>12.2 Ochratoxin A                                                                                                                                                                                                                                                                                                                                                                      | Vegetable oil<br>Cereals<br>Animal Feed | 1/year<br>As requested<br>2/year |
| <b>13. Pesticides</b>                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |                                  |
| Multi pesticides ( <i>Appendix 1, 2, 3</i> )                                                                                                                                                                                                                                                                                                                                                                              | Product of Pesticides                   | 1/year<br>As requested<br>2/year |

\* Consensus values from participants – using statistical methods described in ISO 13528 and the IUPAC International Harmonized Protocol. Qualitative uses true presence/absence.

#### Appendix 1: Pesticides

| No | Compound name |
|----|---------------|
| 1. | Propargite    |
| 2. | Dicofol       |
| 3. | Cypermethrin  |
| 4. | Endosulfan    |
| 5. | Fenpropathrin |
| 6. | Permethrin    |
| 7. | Deltamethrin  |

#### Appendix 2: Pesticides

| No | Compound name |
|----|---------------|
| 1. | 2,4-D         |
| 2. | Acephate      |
| 3. | Azoxystrobin  |
| 4. | Carbaryl      |

| No  | Compound name         |
|-----|-----------------------|
| 5.  | Carbendazim           |
| 6.  | Carbofuran            |
| 7.  | Chlorantraniliprole   |
| 8.  | Chlorpyrifos          |
| 9.  | Chlorpyrifos - Methyl |
| 10. | Clothianidin          |
| 11. | Cypermethrin          |
| 12. | Dinotefuran           |
| 13. | Alpha-Cypermethrin    |
| 14. | Cyhalothrin           |
| 15. | Dichlorvos            |
| 16. | Diiflubenzuron        |
| 17. | Chlordane             |
| 18. | Cycloxydim            |
| 19. | Isoprothiolane        |

### Appendix 3: Pesticides

| No  | Compound name                  | No  | Compound name         | No   | Compound name         |
|-----|--------------------------------|-----|-----------------------|------|-----------------------|
| 1.  | Fludioxonil                    | 59. | Propargite            | 116. | Diazinon              |
| 2.  | Malathion                      | 60. | Dicofol               | 117. | Etrimfos              |
| 3.  | Fluxapyroxad                   | 61. | Cypermethrin          | 118. | Dichlofenthion        |
| 4.  | Imidacloprid                   | 62. | Alpha-Cypermethrin    | 119. | Fenchlorphos          |
| 5.  | Piperonyl butoxide             | 63. | Endosulfan            | 120. | Pirimiphos methyl     |
| 6.  | Pyraclostrobin                 | 64. | Fenpropathrin         | 121. | Pirimiphos-ethyl      |
| 7.  | Pyrethrins                     | 65. | Permethrin            | 122. | Chlorfenvinphos       |
| 8.  | Spirodiclofen                  | 66. | Deltamethrin          | 123. | Bromophos-ethyl       |
| 9.  | Spirotetramat                  | 67. | 2,4-D                 | 124. | Methidathion          |
| 10. | Thiamethoxam                   | 68. | Acephate              | 125. | Tetrachlorvinphos     |
| 11. | Trifloxystrobin                | 69. | Azoxystrobin          | 126. | Ethion                |
| 12. | Pirimicarb                     | 70. | Carbaryl              | 127. | Carbophenothion       |
| 13. | Isoprocarb                     | 71. | Carbendazim           | 128. | Azinphos-methyl       |
| 14. | Thiodicarb                     | 72. | Carbofuran            | 129. | Azinphos-ethyl        |
| 15. | Methomyl                       | 73. | Chlorantraniliprole   | 130. | Propoxur              |
| 16. | 2,4-Dichlorophenoxyacetic acid | 74. | Chlorpyrifos          | 131. | Carbofuran            |
| 17. | Abamectin                      | 75. | Chlorpyrifos – Methyl | 132. | Abamectin B1a         |
| 18. | Diiflubenzuron                 | 76. | Clothianidin          | 133. | Emamectin B1a bezoate |
| 19. | Dimethomorph                   | 77. | Dinotefuran           | 134. | Kresoxim-methyl       |
| 20. | Acetamiprid                    | 78. | Cyhalothrin           | 135. | Hexythiazox           |
| 21. | Cyproconazole                  | 79. | Dichlorvos            | 136. | Iprodione             |
| 22. | Difenoconazole                 | 80. | Diiflubenzuron        | 137. | Thiacloprid           |
| 23. | Buprofezin                     | 81. | Chlordane             | 138. | Myclobutanil          |

| No  | Compound name                                | No   | Compound name      | No   | Compound name       |
|-----|----------------------------------------------|------|--------------------|------|---------------------|
| 24. | Dimethoate                                   | 82.  | Cycloxydim         | 139. | Profenofos          |
| 25. | Cyromazine                                   | 83.  | Isoprothiolane     | 140. | Fenpyroximate       |
| 26. | Amitraz                                      | 84.  | Aldicarb sulfoxide | 141. | Flubendiamide       |
| 27. | Azocyclotin                                  | 85.  | Aldicarb sulfone   | 142. | Propamocarb         |
| 28. | Cyhexatin                                    | 86.  | Aldrin             | 143. | Tebuconazole        |
| 29. | Benalaxyl                                    | 87.  | Alpha-Endosulfan   | 144. | Tebufenozide        |
| 30. | Bentazone                                    | 88.  | Endrin             | 145. | Mandipropamid       |
| 31. | Bitertanol                                   | 89.  | Cyantraniliprole   | 146. | Fluopyram           |
| 32. | Boscalid                                     | 90.  | Prochloraz         | 147. | Methamidophos       |
| 33. | Clofentezine                                 | 91.  | Metalaxyl          | 148. | Fenamiphos          |
| 34. | Emamectin Benzoate                           | 92.  | Amitrole           | 149. | Fenbuconazole       |
| 35. | Fipronil                                     | 93.  | Diquat             | 150. | Fenhexamid          |
| 36. | Clethodim                                    | 94.  | Dimethenamid       | 151. | Imazalil            |
| 37. | Cyprodinil                                   | 95.  | Chlormequat        | 152. | Methoxyfenozide     |
| 38. | Ametoctradin                                 | 96.  | Cadusafos          | 153. | Penconazole         |
| 39. | Aminopyralid                                 | 97.  | Dicamba            | 154. | Spinozad            |
| 40. | Endosulfan sulfate                           | 98.  | Bifenazate         | 155. | Tolclofos-Methyl    |
| 41. | Hexachlorobenzene                            | 99.  | Dichlofluanid      | 156. | Fenamidone          |
| 42. | Heptachlor                                   | 100. | Cyflumetofen       | 157. | Indoxacarb          |
| 43. | Heptachlor-endo-epoxide<br>(trans, isomer A) | 101. | Carbosulfan        | 158. | Metaflumizone       |
| 44. | 4,4'-DDE                                     | 102. | Chlordane          | 159. | Metrafenone         |
| 45. | 4,4'-DDD                                     | 103. | Lambda-Cyhalothrin | 160. | Dithiocarbamates    |
| 46. | 4,4'-DDT                                     | 104. | Bifenthrin         | 161. | Famoxadone          |
| 47. | 2,4'-DDT                                     | 105. | 2-Phenylphenol     | 162. | Fenbutatin Oxide    |
| 48. | Dieldrin                                     | 106. | Diphenylamine      | 163. | Fluensulfone        |
| 49. | beta-Endosulfan                              | 107. | Bromopropylate     | 164. | Folpet              |
| 50. | Methoxychlor                                 | 108. | Chlorothalonil     | 165. | Glufosinate-Ammoniu |
| 51. | Phenothrin                                   | 109. | Chlorpropham       | 166. | Meptyldinocap       |
| 52. | Fenvalerate                                  | 110. | Diphenylamine      | 167. | Oxamyl              |
| 53. | Cyfluthrin                                   | 111. | Captan             | 168. | Penthiopyrad        |
| 54. | Methacrifos                                  | 112. | Bioresmethrin      | 169. | Quintozone          |
| 55. | Sulfotep                                     | 113. | Etoxazole          | 170. | Sulfoxaflor         |
| 56. | Propetamphos                                 | 114. | Iprovalicarb       | 171. | Thiabendazole       |
| 57. | Fonofos                                      | 115. | Fenobucarb         | 172. | Tolyfluanid         |
| 58. | Triforine                                    | /    | /                  | /    | /                   |



# Accredited Proficiency Testing Provider

A2LA has accredited

## QUALITY ASSURANCE OF VIETNAM

*Hanoi, 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: 2023

*Conformity assessment - General requirements for the competence of proficiency testing providers.* This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.



Presented this 28<sup>th</sup> of December 2023.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 3633.01  
Valid to September 30, 2026

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