# Schedule

**Issue date: 18 March 2025**
**Valid Until: -**

**NO: SAMM 035**



| | |
|---|---|
| **LABORATORY LOCATION/ CENTRAL OFFICE:** | Quality Control Laboratory, Emery Oleochemicals (M) Sdn. Bhd.<br>LOT 1, JALAN PERAK KAWASAN PERUSAHAAN, 42500 TELOK PANGLIMA GARANG SELANGOR , 42500,<br>SELANGOR<br>MALAYSIA |
| **ACCREDITED SINCE :** | 18 MARCH 2025 |
| **FIELD(S) OF TESTING:** | CHEMICAL |

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

| | |
|---|---|
| **CENTRAL LOCATION:** | Quality Control Laboratory, Emery Oleochemicals (M) Sdn. Bhd.<br>LOT 1, JALAN PERAK KAWASAN PERUSAHAAN, 42500 TELOK PANGLIMA GARANG SELANGOR , 42500,<br>Selangor |
| **FIELD(S) OF TESTING :** | CHEMICAL, |

**SCOPE OF TESTING : CHEMICAL**

| **Material / Product Tested** | **Type Of Test / Properties Measured / Range Of Measurement** | **Standard Test Methods / Equipment / Techniques** |
|---|---|---|
| Finished Products Only Fatty Acid And Related Product | Water (Karl Fischer) | ISO 760 (Part 7): In-house EM QCA010 based on ISO 760 (Part 7) |
| | Titer | AOCS Tr 1a-64: In-house EM QCA013 based on AOCS Tr 1a-64 |
| | Saponification Value | AOCS TI 1a-64: In-house EM QCA011 based on AOCS TI 1a-64 |
| | Preparation of Methyl-esters of Fatty Acids | ISO 5509: In-house EM QCA007 based on ISO 5509 |
| | Iodine Value | AOCS Tg 1a-64: In-house EM QCA009 based on AOCS Tg 1a-64 |

| Material / Product Tested | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques |
|---|---|---|
| | Fatty Acids Composition by GC(or Chain Distribution) | ISO 5508 In-house EM QCA006 based on ISO 5508 |
| | Colour after Heating | AOCS Td 3a-64: In-house EM QCA004 based on AOCS Td 3a-64 |
| | Colour (Lov. 5 ?" or 1?) | AOCS Cc In-house EM QCA005 based onAOCS Cc 13e-92 |
| | Colour (Gardner) | AOCS Td 1a-64: In-house EM QCA003 based onAOCS Td 1a-64 |
| | Colour of Clear Liquids (Pt-Co scale) or (Colour APHA) | ASTM D 1209: In-house EM QCA002 based on ASTM D 1209 |
| | Acid Value | AOCS Te 1a-64: In-house EM QCA001 based on AOCS Te 1a-64: / ISO 660 (Part 5) |
| Finished Products Only Methylester And Related Product | Water (Karl Fischer) | ISO 760 (Part 7): In-house EM QCA010 based on ISO 760 (Part 7) |
| | Saponification Value | AOCS TI 1a-64: In-house EM QCA011 based on AOCS TI 1a-64 |
| | Iodine Value | AOCS Tg 1a-64: In-house EM QCA009 based on AOCS Tg 1a-64 |
| | Fatty Acids Composition by GC (or Chain Distribution) | In-house EM QCA006 based on ISO 5508 |
| | Colour (Lov. 5 ?" or 1?) | AOCS Cc 13e-92: In-house EM QCA005 based on AOCS Cc 13e-92 |
| | Colour (Gardner) | AOCS Td 1a-64: In-house EM QCA003 based on AOCS Td 1a-64 |
| | Colour of Clear Liquids (Pt-Co scale) or (Colour APHA) | ASTM D1209: In-house EM QCA002 based on ASTM D1209 |
| | Acid Value | ISO 660 (Part 5): In-house EM QCA001 based on AOCS Te 1a-64:1997/ISO 660 (Part 5) |
| Finished Products Only Fatty Alcohol And Related Products | Hydrocarbon Content by GC (or Hydrocarbon) | In-house EM QCA006 based on ISO 5508 |
| | Fatty Alcohols Composition byGC (or Chain Distribution) | In-house EM QCA006 based on ISO 5508 |
| | Melting Point (or Solidification Point) | ISO 3841: In-house EM QCA012 based on AOCS TI 1a-64 |
| | Water (Karl Fischer) | ISO 760 (Part 7): In-house EM QCA010 based on 760 (Part 7) |
| | Saponification Value | AOCS TI 1a-64: In-house EM QCA011 based on AOCS TI 1a-64 |
| | Iodine Value | AOCS Tg 1-64 In-house EM QCA009 based on AOCS Tg 1-64 |

| Material / Product Tested | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques |
|---|---|---|
| | Hydroxyl Value | AOCS Cd 13-60:In-house EM QCA008 based on AOCS Cd 13-60 |
| | Colour of Clear Liquids (Pt-Co scale) or (Colour APHA) | ASTM D1209: In-house EM QCA002 based onASTM D1209 |
| | Acid Value | ISO 660 (Part 5): In-house EM QCA001 based on AOCS Te 1a-64:1997/ISO 660 (Part 5) |
| Finished Products Only Refined/ Distilled Glycerine | Water (Karl Fischer) | ISO 760 (Part 6.1): /EP/BP In-house EM QCA040 based on ISO 760 (Part 6.1): /EP/BP |
| | Sulphates | USP In-house EM QCA040 based on USP |
| | Sulphated Ash (or Residue on Ignition) | ISO 1616 |
| | Sulphated Ash (or Residue on Ignition) | EP/BP In-house EM QCA039 based on EP/BP |
| | Sulphated Ash (or Residue on Ignition) | USP In-house EM QCA038 based on USP |
| | Sugars | EP/BP In-house EM QCA037:2011 based on EP/BP |
| | Refractive Index | APAG-GL-006: In-house EM QCA034 based on APAG-GL-006 |
| | Relative Density Index 22?C/ 22?C (or Specific Gravity) | ISO 2099 (Part 2) :/APAG-GL-008: In-house EM QCA035 based on ISO 2099 (Part 2) :/APAG-GL-008 |
| | pH | ASTM E70-97: In-house EM QCA033 based on ASTM E70-97 |
| | Heavy Metals | EP (Mtd A)/ BP (Test A) In-house EM QCA032 based on EP (Mtd A)/ BP (Test A) |
| | Heavy Metals | BS 5711 (Part15): In-house EM QCA031 based on BS 5711 (Part15) |
| | Heavy Metals | USP 38 Version In-house EM QCA030 based on USP 38 Version |
| | Halogenated Compounds | EP/BP In-house EM QCA029 based on EP/BP |
| | Glycerol Content Physically | APAG-GL-009: In-house EM QCA028 based on APAG-GL-009 |
| | Fatty Acids and Ester | USP In-house EM QCA036 based on USP |
| | Esters | EP/BP In-house EM QCA027 based on EP/BP |
| | Colour of Clear Liquids (Pt-Co scale) or (Colour APHA) | ASTM D1209: In-house EM QCA002 based on ASTM D1209 |

**Issue date: 18 March 2025**
**Valid Until: -**

**NO: SAMM 035**



| Material / Product Tested | Type Of Test / Properties Measured / Range Of Measurement | Standard Test Methods / Equipment / Techniques |
|---|---|---|
| | Chlorinated Compounds (or Organic Chlorides) | USP In-house EM QCA026 based on USP |
| | Chlorinated Compounds (or Organic Chlorides) | BS 5711 (Part 14): In-house EM QCA025 based on BS 5711 (Part 14) |
| | Chlorides | BS 5711 (Part 12): In-house EM QCA024 based on BS 5711 (Part 12) |
| | Chlorides | EP/ BP In-house EM QCA023 based on EP / BP |
| | Chlorides | USP In-house EM QCA022 based on USP |
| | Aldehydes and Reducing Substances | EP/ BP In-house EM QCA021 based on EP/ BP |
| | Acid or Alkalinity or Acid Content | ISO 1615 In-house EM QCA020 based on ISO 1615 |
| | Acid or Alkalinity or Acid Content | BS 5711 (Part 5) In-house EM QCA019 based on BS 5711 (Part 5) |
| | Acid or Alkalinity or Acid Content | EP/ BP In-house EM QCA018 based on EP/ BP |
| Surfactant | Anionic-Active Matter | ISO 2271: In-house EM QCA047: based on ISO 2271 |
| Other Oleochemical-derivatives | Refractive Index | AOCS Tp 1a-64:In-house EM QCA016: based on AOCS Tp 1a-64 |
| | pH | ISO 4316 In-house EM QCA050 based on ISO 4316 |
| | Free Fatty Acids | AOCS Ca 5a-40: In-house EM QCA015: based on AOCS Ca 5a-40 |
| | Viscosity-Brookfield | AOCS Ja 10-87: In-house EM QCA017: based on AOCS Ja 10-87: |