

# ANNEX A

## SCHEDULE OF RECOGNITION – TESTING LABORATORIES

| Facility Number                                                                                                                                   | UNBS/LRS/0006 | S/N | Technical Signatories                 | Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| St. Micheal Food Laboratory and consultancy Limited ><br><br>P. O. Box 27758 Kampala. Uganda<br><br>Plot 68B Prince Charles Drive, Kololo-Kampala |               | 1.  | Okitoi Benon<br>(Technical signatory) | <b>Microbiology:</b> <ul style="list-style-type: none"> <li>• ISO 9308-1:2014</li> <li>• ISO 19250:2010</li> <li>• ISO 6888-1:2021</li> <li>• ISO 7899-2:2000</li> <li>• ISO 16266:2006</li> <li>• ISO 9308-1:2014</li> <li>• ISO 6222:1999</li> <li>• ISO 14189:2013</li> <li>• ISO 4833-1:2013</li> <li>• ISO 16649-2:2001</li> <li>• ISO 4832:2006</li> <li>• 21527-1/2:2008</li> <li>• ISO 6579-1:2017</li> <li>• ISO 21528-2:2017</li> <li>• ISO 7937:2004</li> <li>• ISO 7932:2004/Amd 1:2020</li> <li>• Compendium of Methods for the microbiological examination of foods, 4<sup>th</sup> Edition (for Intestinal enterococci)</li> <li>• ISO 11290-1/2:2017</li> </ul> <b>Chemistry:</b> <ul style="list-style-type: none"> <li>• ASTM D 5907-18</li> <li>• US EAS 12:2014</li> <li>• ISO 6059:1984</li> <li>• ISO 9297:1989</li> <li>• ISO 6059:1984</li> <li>• ISO 7393-2:2017</li> <li>• ISO 10523:2008</li> <li>• ISO 7888:1985</li> <li>• ISO 11923:1997</li> <li>• ISO 9963-1:1994</li> <li>• US EAS 27:2019-Annex C</li> <li>• ISO 2446:2008</li> <li>• ISO 6731:2010   IDF 21:2010</li> <li>• ISO 26323:2009</li> <li>• ISO 6091:2010</li> <li>• ISO 6731 IDF 21:2010</li> <li>• EAS 901:2023, Clause 5</li> <li>• ISO 1666:1996</li> <li>• EAS 81-1:2006</li> <li>• Lactoscan</li> <li>• US ISO 2173:2003</li> </ul> |

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|  |    |                            | <ul style="list-style-type: none"> <li>• ISO 21415-1:2006</li> <li>• ISO 2448:1998</li> <li>• ISO 1738:2004</li> <li>• US EAS 87:2019</li> <li>• US EAS 49:2019</li> <li>• AOAC 920.151:2019</li> <li>• ISO 3960:2017</li> <li>• AOAC 965.33 :1969</li> <li>• ISO 1740/IDF 6:2004</li> <li>• ISO 660:2020</li> <li>• EAS 82:2011</li> <li>• ISO 2171:2023</li> <li>• AOAC 942.05:2019</li> <li>• AOAC 920.18:2020</li> <li>• EAS 80:2006</li> <li>• EAS 781:2012</li> <li>• US ISO 763:2003</li> <li>• ISO 6540:2021</li> <li>• ISO 11294:1994</li> <li>• EAS 781:2012-Annex A</li> <li>• EAS 33:2019 (Annex B)</li> <li>• AOAC 905.02</li> <li>• ELISA Method-Aflatoxin test kits</li> <li>• EAS 27:2019 (Annex B)</li> <li>• A.O.A.C 920. 149:1965</li> <li>• AOAC 942.15:1965</li> <li>• EAS 27:2019 annex B</li> <li>• EAS 33:2019 Annex B</li> <li>• AOAC 962.19:1977</li> <li>• ISO 11287:1993</li> <li>• EAS 36-1:2019 (ANNEX-A)</li> <li>• EAS 786:2013 (Annex B)</li> <li>• US EAS 104:2014</li> <li>• EAS 786:2013- Annex C</li> <li>• EAS 786:2013- Annex B</li> <li>• EAS 786:2013- Annex A</li> <li>• US 191:2016- A.12</li> </ul> |
|  | 2. | Mayanja Brian<br>(Analyst) | <ul style="list-style-type: none"> <li>• <b>Chemistry:</b></li> <li>• ASTM D 5907-18</li> <li>• US EAS 12:2014</li> <li>• ISO 6059:1984</li> <li>• ISO 9297:1989</li> <li>• ISO 6059:1984</li> <li>• ISO 7393-2:2017</li> <li>• ISO 10523:2008</li> <li>• ISO 7888:1985</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  | <ul style="list-style-type: none"> <li>• ISO 11923:1997</li> <li>• ISO 9963-1:1994</li> <li>• US EAS 27:2019-Annex C</li> <li>• ISO 2446:2008</li> <li>• ISO 6731:2010   IDF21:2010</li> <li>• ISO 26323:2009</li> <li>• ISO 6091:2010</li> <li>• ISO 6731 IDF 21:2010</li> <li>• EAS 901:2023, CLAUSE 5</li> <li>• ISO 1666:1996</li> <li>• EAS 81-1:2006</li> <li>• Lactoscan</li> <li>• US ISO 2173:2003</li> <li>• ISO 21415-1:2006</li> <li>• ISO 2448:1998</li> <li>• ISO 1738:2004</li> <li>• US EAS 87:2019</li> <li>• US EAS 49:2019</li> <li>• AOAC 920.151:2019</li> <li>• ISO 3960:2017</li> <li>• AOAC 905.02</li> <li>• AOAC 965.33 :1969</li> <li>• ISO 1740/IDF 6:2004</li> <li>• ISO 660:2020</li> <li>• EAS 82:2011</li> <li>• ISO 2171:2023</li> <li>• AOAC 942.05:2019</li> <li>• AOAC 920.18:2020</li> <li>• EAS 80:2006</li> <li>• EAS 781:2012</li> <li>• US ISO 763:2003</li> <li>• ISO 6540:2021</li> <li>• ISO 11294:1994</li> <li>• EAS 781:2012-Annex A</li> <li>• EAS 33:2019 (Annex B)</li> <li>• ELISA Method-Aflatoxin test kits</li> <li>• EAS 27:2019 (Annex B)</li> <li>• A.O.A.C 920. 149:1965</li> <li>• AOAC 942.15:1965</li> <li>• EAS 27:2019 annex B</li> <li>• EAS 33:2019 Annex B</li> <li>• AOAC 962.19:1977</li> <li>• ISO 11287:1993</li> <li>• EAS 36-1:2019 (ANNEX-A)</li> <li>• EAS 786:2013 (Annex B)</li> <li>• US EAS 104:2014</li> <li>• EAS 786:2013- Annex C</li> <li>• EAS 786:2013- Annex B</li> </ul> |
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|                              |                                                       |                                                    | <ul style="list-style-type: none"><li>EAS 786:2013- Annex A</li><li>US 191:2016- A.12</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|-------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | 3.                                                    | Michelle Kyeyune<br>(Technical signatory)          | <b>Microbiology:</b> <ul style="list-style-type: none"><li>ISO 9308-1:2014</li><li>ISO 19250:2010</li><li>ISO 6888-1:2021</li><li>ISO 7899-2:2000</li><li>ISO 16266:2006</li><li>ISO 9308-1:2014</li><li>ISO 6222:1999</li><li>ISO 14189:2013</li><li>ISO 4833-1;2013</li><li>ISO 16649-2:2001</li><li>ISO 4832:2006</li><li>21527-1/2:2008</li><li>ISO 6579-1;2017</li><li>ISO 21528-2:2017</li><li>ISO 7937:2004</li><li>ISO 7932:2004/Amd 1:2020</li><li>Compendium of Methods for the microbiological examination of foods, 4<sup>th</sup> Edition (for Intestinal enterococci)</li><li>ISO 11290-1/2:2017</li></ul> |
|                              | 4.                                                    | Allen Nakintu<br>(Analyst)                         | <b>Microbiology:</b> <ul style="list-style-type: none"><li>ISO 4833-1;2013</li><li>ISO 16649-2:2001</li><li>ISO 4832:2006</li><li>21527-1/2:2008</li><li>ISO 21528-2:2017</li><li>ISO 11290-1/2:2017</li><li>ISO 6888-1:2021</li><li>ISO 6222:1999</li><li>ISO 9308-1:2014</li></ul> <b>Chemistry:</b> <ul style="list-style-type: none"><li>ISO 6540:2021</li><li>ISO 11294:1994</li><li>EAS 781:2012-Annex A</li><li>ISO 21415-1:2006</li><li>ELISA Method-Aflatoxin test kits</li></ul>                                                                                                                               |
| Material or products tested  | Type of tests/property measured, Range of Measurement | Standard specifications, Techniques/Equipment used |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| TESTING FIELD - MICROBIOLOGY |                                                       |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Water and Ices               | Escherichia coli                                      | (Ref. ISO 9308-1:2014), Membrane filtration        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                              | Salmonella Detection                                  | (Ref: ISO 19250:2010), Membrane filtration         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|                                                                                                                                                                                         |                                                                                    |                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                         | Staphylococcus. aureus                                                             | (Ref: ISO 6888-1:2021), Membrane filtration                                                                    |
|                                                                                                                                                                                         | Streptococcus faecalis                                                             | (Ref: ISO 7899-2:2000), Membrane filtration                                                                    |
|                                                                                                                                                                                         | Pseudomonas aeruginosa                                                             | (Ref: ISO 16266:2006), Membrane filtration                                                                     |
|                                                                                                                                                                                         | Total coliforms                                                                    | (Ref: ISO 9308-1:2014), Membrane filtration                                                                    |
|                                                                                                                                                                                         | Total Viable Count at 22 and 37 degrees                                            | (Ref: ISO 6222:1999), Membrane filtration                                                                      |
|                                                                                                                                                                                         | Clostridium perfringens, Sulphite Reducing Anaerobes and Sulphite Anaerobic spores | (Ref: ISO 14189:2013), Membrane filtration                                                                     |
| <b>FOODS, BEVERAGES AND SWABS</b><br><i>Matrices:(food stuffs, beverages, fish and fish products, milk and milk products, meat and meat products, soft drinks, fruit juices, swabs)</i> | Total plate Count                                                                  | (Ref: ISO 4833-1:2013), Pour plate                                                                             |
|                                                                                                                                                                                         | Escherichia coli                                                                   | (Ref: ISO 16649-2:2001), Pour plate                                                                            |
|                                                                                                                                                                                         | Total Coliforms                                                                    | (Ref: ISO 4832:2006), Pour plate                                                                               |
|                                                                                                                                                                                         | Staphylococcus aureus                                                              | (Ref: ISO 6888-1:2021), Spread-plate                                                                           |
|                                                                                                                                                                                         | Yeasts and moulds count                                                            | (Ref: ISO 21527-1/2:2008), Spread plate                                                                        |
|                                                                                                                                                                                         | Salmonella detection                                                               | (Ref: ISO 6579-1:2017), Streak plate                                                                           |
|                                                                                                                                                                                         | Enterobacteriaceae                                                                 | (Ref: ISO 21528-2:2017), Pour plate                                                                            |
|                                                                                                                                                                                         | Clostridium perfringens, Sulphite Reducing Anaerobes and Sulphite Anaerobic spores | (Ref: ISO 7937:2004), Pour plate                                                                               |
|                                                                                                                                                                                         | Bacillus cereus                                                                    | (Ref: ISO 7932:2004/Amd 1:2020) Spread plate                                                                   |
|                                                                                                                                                                                         | Intestinal enterococci                                                             | (Ref: Compendium of Methods for the microbiological examination of foods, 4 <sup>th</sup> Edition), Pour plate |
|                                                                                                                                                                                         | Listeria monocytogenes (Detection/Enumeration)                                     | (Ref: ISO 11290-1/2:2017), Spread-/Streak-plate                                                                |
| <b>TESTING FIELD - CHEMISTRY</b>                                                                                                                                                        |                                                                                    |                                                                                                                |
| <b>Water and Ices</b>                                                                                                                                                                   | Total dissolved solids (TDS)                                                       | ASTM D 5907-18                                                                                                 |
|                                                                                                                                                                                         | Determination of Calcium hardness in water                                         | ISO 6059:1984                                                                                                  |
|                                                                                                                                                                                         | Determination of total hardness in water(as CaCO <sub>3</sub> )                    | ISO 6059:1984                                                                                                  |

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|                                                                                                                                                   | Determination of Chlorides in water                                                               | ISO 9297:1989                         |
|                                                                                                                                                   | Determination of magnesium hardness in water                                                      | ISO 6059:1984                         |
|                                                                                                                                                   | Determination of Residual Free Chlorine in water                                                  | ISO 7393-2:2017                       |
|                                                                                                                                                   | Determination of pH in water                                                                      | ISO 10523:2008                        |
|                                                                                                                                                   | Determination of electrical conductivity in water                                                 | ISO 7888:1985                         |
|                                                                                                                                                   | Detection of suspended matter in water                                                            | ISO 11923:1997                        |
|                                                                                                                                                   | Determination of alkalinity in water                                                              | ISO 9963-1:1994                       |
| <b>Milk and milk products</b>                                                                                                                     | Corrected Lactometer Reading (density)                                                            | US EAS 27:2019-Annex C                |
|                                                                                                                                                   | Milk Fat content                                                                                  | ISO 2446:2008                         |
|                                                                                                                                                   | Total solids.                                                                                     | ISO 6731:2010   IDF 21:2010           |
|                                                                                                                                                   | pH/pH variation                                                                                   | ISO 26323:2009                        |
|                                                                                                                                                   | Titratable acidity/ Titratable acidity variation:                                                 | ISO 6091:2010                         |
|                                                                                                                                                   | Solids Non Fat (SNF):                                                                             | ISO 6731 IDF 21:2010                  |
|                                                                                                                                                   | Moisture content.                                                                                 | EAS 901:2023, Clause 5, ISO 1666:1996 |
|                                                                                                                                                   | Ash content:                                                                                      | EAS 81-1:2006                         |
|                                                                                                                                                   | pH variation:                                                                                     | Lactoscan user manual                 |
|                                                                                                                                                   | Freezing point depression                                                                         | Lactoscan user manual                 |
|                                                                                                                                                   | Lactose                                                                                           | Lactoscan user manual                 |
|                                                                                                                                                   | Added water                                                                                       | Lactoscan user manual                 |
|                                                                                                                                                   | Protein Content                                                                                   | Lactoscan user manual                 |
| <b>FOODS AND BEVERAGES</b><br><i>Matrices:(foodstuffs, alcoholic and non-alcoholic beverages, fish and fish products, meat and meat products,</i> | <b>Brix.</b><br><i>Matrix: Beverages.</i>                                                         | US ISO 2173:2003                      |
|                                                                                                                                                   | <b>Gluten Content</b><br><i>Matrix: Foodstuffs</i>                                                | ISO 21415-1:2006                      |
|                                                                                                                                                   | <b>Determination of ethanol content</b><br><i>Matrix: Beverages (alcoholic and non-alcoholic)</i> | ISO 2448:1998                         |
|                                                                                                                                                   | <b>Determination of salt content.</b> <i>Matrix: Food</i>                                         | ISO 1738:2004                         |

|                                       |                                                                                                                                    |                                                                                    |
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| <b>soft drinks,<br/>fruit juices)</b> | <i>stuffs (Plant and Animal origin)</i>                                                                                            |                                                                                    |
|                                       | <b>Total Solids</b><br><i>Matrix: Food stuffs (Plant and Animal origin)</i>                                                        | US EAS 87:2019<br>US EAS 49:2019<br>AOAC 920.151:2019                              |
|                                       | <b>Determination of the peroxide value.</b><br><i>Matrix: Food stuffs (Plant and Animal origin)</i>                                | ISO 3960:2017<br>AOAC 965.33 :1969                                                 |
|                                       | <b>Determination of the free fatty acids.</b><br><i>Matrix: Food stuffs (Plant and Animal origin)</i>                              | ISO 1740/IDF 6:2004<br>ISO 660:2020                                                |
|                                       | <b>Total ash content.</b><br><i>Matrix: Food stuffs (Plant and Animal origin)</i>                                                  | EAS 82:2011<br>ISO 2171:2023<br>AOAC 942.05:2019<br>AOAC 920.18:2020               |
|                                       | <b>Acid insoluble ash.</b><br><i>Matrix: Food stuffs (Plant and Animal origin)</i>                                                 | EAS 80:2006<br>EAS 781:2012<br>US ISO 763:2003                                     |
|                                       | <b>Moisture content.</b><br><i>Matrix: Food stuffs (Plant and Animal origin)</i>                                                   | ISO 6540:2021<br>ISO 11294:1994<br>EAS 781:2012-Annex A                            |
|                                       | <b>Total acidity:</b><br><i>Matrix: Food stuffs (Plant and Animal origin)</i>                                                      | EAS 33:2019 (Annex B)<br>EAS 27:2019 (Annex B)<br>A.O.A.C 920. 149:1965            |
|                                       | <b>Titrateable acidity</b><br><i>Matrix: Food stuffs (Plant and Animal origin)</i>                                                 | AOAC 942.15:1965<br>EAS 27:2019 annex B<br>EAS 33:2019 Annex B<br>AOAC 962.19:1977 |
|                                       | <b>pH</b><br><i>Matrix: Foodstuffs</i>                                                                                             | ISO 11287:1993                                                                     |
|                                       | <b>Total Aflatoxins:</b><br><i>Matrix: Foodstuffs, Cereals and cereal products, Legumes and legume products e.g. peanut butter</i> | ELISA Method-Aflatoxin test kits                                                   |
|                                       | <b>Crude fat content</b><br><i>Matrix: Food stuffs (Plant and Animal origin)</i>                                                   | AOAC 905.02:1975                                                                   |
|                                       | <b>Water insoluble matter:</b><br><i>Matrix: Honey</i>                                                                             | EAS 36-1:2019 (ANNEX --A)                                                          |
| <b>HAND<br/>SANITIZER</b>             | <b>Determination of pH.</b>                                                                                                        | EAS 786:2013 (Annex B)                                                             |

|                                                                                                                                  |                                          |                       |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------|
| <b>Matrix:(alcohol and non-alcohol based sanitizers)</b>                                                                         | <b>Determination of alcohol content.</b> | US EAS 104:2014       |
| <b>COSMETICS</b><br>(oil- and water-emulsion Skin, hair creams and lotions and gels, petroleum jelly, hair relaxers liquid soap) | <b>Total fatty matter content.</b>       | EAS 786:2013- Annex C |
|                                                                                                                                  | <b>pH value.</b>                         | EAS 786:2013- Annex B |
|                                                                                                                                  | <b>Thermal stability.</b>                | EAS 786:2013- Annex A |
|                                                                                                                                  | <b>Volatile matter</b>                   | US 191:2016- A.12     |

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