

Schedule of Accreditation  
for Testing Laboratory According to ISO/IEC 17025  
issued to  
Central Laboratory for Soil , Food and Feed Stuffs  
Faculty of Technology and Development - Zagazig University  
Zagazig University- Zagazig  
Sharkiya Governorate- Egypt

Schedule No.: 021131/1B

1<sup>st</sup> Accreditation date: August 19, 2021

Issue No. (1): August 19, 2021

Revision No. (-):

Valid to: August 18, 2025

| Material / Products Tested | Type of Tests / Properties Measured / Range of Measurements | Standard Specifications / Techniques Used |                                                                                                                                                                                                  |
|----------------------------|-------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Soil                       | Determination of pH value                                   | ES 5392:2006<br>ISO 10390:2005            | pH Meter<br>Model AD 1030 , S.N 875399 ,875403<br>Balance<br>Model Citizen CY204 ,USA, S.N 1043131                                                                                               |
|                            | Determination of electrical conductivity                    | ES 5390:2006<br>ISO 11265:1994            | Conductivity Meter<br>Model 4510 ,S.N 03859<br>Balance<br>Model Citizen CY204 ,USA , S.N 1043131                                                                                                 |
|                            | Determination of total nitrogen                             | ES 5393:2006<br>ISO 11261:1995            | Balance<br>Model Citizen CY204 ,USA<br>S.N 1043131, 3113878<br>Distillation unit<br>Model :PbI International PQ10.13<br>S.N 41596<br>Digestion Unit<br>Model Turbotherm 7050/1090044 , S.N 41308 |
|                            | Determination of available phosphorus                       | ISO 11263:1994                            | Spectrophotometer.<br>Model spectro22 ,S.N 221101<br>Balance<br>Model Citizen CY204, USA , S.N 1043131                                                                                           |

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تليفون : ٢٥٢٧٥٢٢٠/٥/٦/٧ (٢٠٢)

فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

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|----------------------------|-------------------------------------------------------------|------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Soil                       | Determination of dry matter & water content                 |            | ISO 11465:1993                            | Drying Oven<br>S.N 137<br>Balance<br>Model Citizen CY204,USA, S.N 1043131, 3113878                                             |
| Pet foods and animal feeds | Determination of metals                                     | LOQ (mg/L) | ES 5861 :2007<br>ISO 6869:2000            | Atomic Absorption Spectrophotometer<br>Model Savant AA, S.N A7322(flame and graphite furnace)<br>Model 2380, S.N 131865(flame) |
|                            | Magnesium (Mg)                                              | 0.007      |                                           | Muffle Furnace<br>Model : M1 811,Electro- Mage<br>SN: 899221                                                                   |
|                            | Calcium (Ca)                                                | 0.004      |                                           |                                                                                                                                |
|                            | Manganese (Mn)                                              | 0.010      |                                           |                                                                                                                                |
|                            | Zinc (Zn)                                                   | 0.025      |                                           |                                                                                                                                |
|                            | Copper (Cu)                                                 | 0.007      |                                           |                                                                                                                                |
|                            | Iron (Fe)                                                   | 0.054      |                                           |                                                                                                                                |
|                            | Potassium (K)                                               | 0.070      |                                           |                                                                                                                                |
|                            | Sodium (Na)                                                 | 0.010      |                                           |                                                                                                                                |
|                            | Determination of crude ash                                  |            | ES 5464:2006<br>ISO 5984:2002             | Muffle Furnace<br>Model : M1 811 Electro- Mage, SN: 899221<br>Balance<br>Model Citizen CY204, S.N 1043131, 3113878             |

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|----------------------------|----------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pet foods and animal feeds | Determination of moisture and volatile matter content                            | ES 5462: 2006<br>ISO 6496:1999            | Drying Oven<br>S.N 137<br>Balance<br>Model Citizen CY204, S.N 1043131                                                                                                                                                              |
|                            | Determination of total nitrogen content and calculation of crude protein content | ES 5465-1: 2006<br>ISO 5983-1 :2002       | Balance<br>Model Citizen CY204,USA , S.N 1043131<br>Digital Burette<br>S.N 12H14340, 12H14339<br>Distillation unit<br>Model :PbI International PQ10.13<br>S.N 41596<br>Digestion Unit<br>Model Turbotherm 7050/1090044 , S.N 41308 |
|                            | Determination of total phosphorus                                                | ES 4185:2005<br>ISO 6491:1998             | Spectrophotometer<br>Manufacturer Labomed, inc.<br>Model spetro22, S.N 221101<br>Balance<br>Model Citizen CY204, S.N 1043131, 3113878<br>Muffle Furnace<br>Model : M1 811,Electro- Mage,<br>SN: 899221                             |

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|----------------------------|-------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pet foods and animal feeds | Determination of Crude Oil and Fats                         | EN 26.2, L54/ 37<br>Volume 52: 2009       | Balance<br>Model Citizen CY204, USA ,<br>S.N 3113878, 1043131<br>Drying Oven<br>S.N 137<br>Soxhelt- extraction apparatus                                    |
|                            | Determination of Crude Fiber                                | EN 26.2, L54/ 40<br>Volume 52: 2009       | Muffle Furnace<br>Model: Mi 811, Electro- Mage,<br>SN: 899221<br>Balance<br>Model: Citizen CY 204, USA,<br>SN: 1043131, 3113878.<br>Drying Oven:<br>S.N 137 |

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|----------------------------|-------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Feed Additives             | Determination of crude ash                                  | ES 5464:2006<br>ISO 5984:2002             | Muffle Furnace<br>Model : M1 811, Electro- Mage, SN: 899221<br>Balance<br>Model Citizen CY204, USA, S.N 1043131<br>Drying Oven:<br>S.N 137                                                        |
|                            | Determination of total phosphorus                           | ES 4185:2005<br>ISO 6491:1998             | Spectrophotometer<br>Model spetro22, S.N 221101<br>Balance<br>Model Citizen CY204, S.N 1043131,<br>Muffle Furnace<br>Model M1 811, Electro- Mage, SN: 899221                                      |
|                            | <b>Determination of metals</b>                              | ES 5861 :2007<br>ISO 6869: 2000           | Atomic Absorption Spectrophotometer<br>Model Savant AA, S.N A7322 (flame and graphite furnace)<br>Model 2380, S.N 131865 (flame)<br>Muffle Furnace<br>Model : M1 811, Electro- Mage<br>SN: 899221 |
|                            | Magnesium (Mg)                                              |                                           |                                                                                                                                                                                                   |
|                            | Calcium (Ca)                                                |                                           |                                                                                                                                                                                                   |
|                            | Manganese (Mn)                                              |                                           |                                                                                                                                                                                                   |
|                            | Zinc (Zn)                                                   |                                           |                                                                                                                                                                                                   |
|                            | Copper (Cu)                                                 |                                           |                                                                                                                                                                                                   |
|                            | Iron (Fe)                                                   |                                           |                                                                                                                                                                                                   |

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|----------------------------|-------------------------------------------------------------|------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Water                      | Determination of metals                                     | LOQ (mg/l) | ISO 15586:2003                            | Atomic Absorption<br>Model Savant AA, S.N A7322(flame<br>and graphite furnace)<br>Spectrophotometer<br>Model 2380, S.N 131865(flame) |
|                            | Zinc (Zn)                                                   | 0.01       | ES 4924:2005                              |                                                                                                                                      |
|                            | Copper (Cu)                                                 | 0.06       | ISO 8288:1986                             |                                                                                                                                      |
|                            | Iron (Fe)                                                   | 0.06       |                                           |                                                                                                                                      |
|                            | Manganese (Mn)                                              | 0.01       |                                           |                                                                                                                                      |
|                            | Cadmium (Cd)                                                | 0.001      |                                           |                                                                                                                                      |
|                            | Nickel (Ni)                                                 | 0.05       |                                           |                                                                                                                                      |
|                            | Chromium (Cr)                                               | 0.001      |                                           |                                                                                                                                      |
|                            | Lead (Pb)                                                   | 0.001      |                                           |                                                                                                                                      |
|                            | Aluminium (Al)                                              | 0.05       |                                           |                                                                                                                                      |

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|----------------------------|----------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Animal Feeds               | Determination of moisture and volatile matter content                            | ES 5462: 2006<br>ISO 6496:1999            | Drying Oven S.N 137<br>Digital Balance<br>Model Citizen CY204,USA, S.N 1043131                                                                                                                                                 |
|                            | Determination of total nitrogen content and calculation of crude protein content | ES 5465-1: 2006<br>ISO 5983-1 :2002       | Balance<br>Model Citizen CY204,USA ,S.N 1043131<br>Digital Burette<br>S.N 12H14340, 12H14339<br>Distillation unit<br>Model :PbI International PQ10.13 S.N 41596<br>Digestion Unit<br>Model Turbotherm 7050/1090044 , S.N 41308 |
|                            | Determination of total phosphorus                                                | ES 4185:2005<br>ISO 6491:1998             | Spectrophotometer<br>Model spetro22, S.N 221101<br>Digital Balance<br>Model Citizen CY204,USA, S.N1043131, 3113878<br>Muffle Furnace<br>Model : M1 811,Electro- Mage, SN: 899221                                               |
|                            | Determination of crude ash                                                       | ES 5464:2006<br>ISO 5984:2002             | Muffle Furnace<br>Model : M1 811,Electro- Mage, SN: 899221<br>Balance<br>Model Citizen CY204,USA, S.N 1043131,<br>Drying Oven: S.N 137                                                                                         |

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| Animal Feeds               | Determination of Crude Fats                                 | EN 26.2, L54/ 37<br>Volume 52:2009        | Balance<br>Model Citizen CY204,USA<br>S.N 1043131, 3113878<br>Drying Oven<br>S.N 137<br>Soxhelt- extraction apparatus                                      |
|                            | Determination of Crude Fiber                                | EN 26.2, L54/40<br>Volume 52: 2009        | Muffle Furnace<br>Model: Mi 811, Electro- Mage, SN:899221<br>Drying Oven<br>S.N 137<br>Digital Balance<br>Model: Citizen CY 204,USA, SN: 1043131, 3113878. |
|                            | Determination of metals                                     | ES 5861 :2007<br>ISO 6869:2000            | Atomic Absorption Spectrophotometer<br>Model Savant AA, S.N A7322<br>Model 2380, S.N 131865                                                                |
|                            | LOQ (mg/L)                                                  |                                           |                                                                                                                                                            |
|                            | Magnesium (Mg)                                              | 0.007                                     |                                                                                                                                                            |
|                            | Calcium (Ca)                                                | 0.004                                     |                                                                                                                                                            |
|                            | Manganese (Mn)                                              | 0.010                                     |                                                                                                                                                            |
|                            | Zinc (Zn)                                                   | 0.025                                     |                                                                                                                                                            |
|                            | Copper (Cu)                                                 | 0.007                                     |                                                                                                                                                            |
|                            | Iron (Fe)                                                   | 0.054                                     |                                                                                                                                                            |

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