

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

Schedule No. : 211031B

Issue No. (2): May 9, 2017

1<sup>st</sup> Accreditation date: December 6, 2012

Revision No. (1): July 5, 2018

Valid to: October 31, 2020

Material / Products Tested	Type of Tests / Properties Measured / Range of Measurements	Standard Specifications / Techniques Used	
Soil	Determination of pH value	ES 5392:2006 ISO 10390:2005	<b>pH Meter</b> Manufacturer Adwa, Romania Model AD 1030 S.N 875399 ,875403
	Determination of electrical conductivity (EC)	ES 5390:2006 ISO 11265:1994	<b>Conductivity Meter</b> Manufacturer Jenway, UK Model 4510 ,S.N 03859
	Determination of total nitrogen	ES 5393:2006 ISO 11261:1995	<b>Balance</b> Model Citizen CY204 ,USA S.N 1043131, 3113878 <b>Digital Burette</b> Manufacturer Micro- kjeldahl, Germany S.N 12H14340, 12H14339
	Determination of available phosphorus	ISO 11263:1994	<b>Spectrophotometer</b> Manufacturer Labomed, inc. Model spectro22 ,S.N 221101 <b>Balance</b> Model Citizen CY204, USA , S.N 1043131, 3113878 <b>pH Meter</b> Manufacturer Adwa, Romania Model AD 1030 ,S.N 875399

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Industrial Investment Map: <http://invgypt.com> الصفحة الرسمية لخريطة الاستثمار الصناعي في مصر

كورنيش المعادي - برج رياض المعادي - القاهرة - مصر  
تليفون : ٢٥٢٧٥٢٢٢ / ٥ / ٦ / ٧ (٢٠٢)  
فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

Handwritten signature: Many El-Desouki

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Material / Products Tested	Type of Tests / Properties Measured / Range of Measurements	Standard Specifications / Techniques Used		
Soil	Determination of dry matter & water content	ISO 11465:1993	<b>Drying Oven</b> Manufacturer Super Serving Science ,UK S.N 137 <b>Balance</b> Model Citizen CY204,USA, S.N 1043131, 3113878	
Pet foods and animal feeds	<b>Determination of metals</b>	ES 5861 :2007 ISO 6869:2000	<b>Atomic Absorption Spectrophotometer</b> Manufacturer GBC ,Australia Model Savant AA, S.N A7322(flame and graphite furance) Manufacturer Perkin Elmer Model 2380, S.N 131865(flame) <b>Muffle Furnace</b> Model : M1 811,Electro- Mage SN: 899221	
	<b>LOQ (mg/L)</b>			
	Magnasium (Mg)			0.007
	Calcium (Ca)			0.004
	Mangnese (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 ISO 5984:2002	<b>Muffle Furnace</b> Model : M1 811 Electro- Mage, SN: 899221 <b>Balance</b> Model Citizen CY204, S.N 1043131, 3113878	

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تليفون : ٢٥٢٧٥٢٢٠/٥/٦/٧ (٢٠٢)  
فاكس : ٢٥٢٧٥٢٢٤ (٢٠٢)

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Pet foods and animal feeds	Determination of moisture and volatile matter content	ES 5462: 2006 ISO 6496:1999	<b>Drying Oven</b> Manufacturer Super Serving Science, UK S.N 137 <b>Balance</b> Model Citizen CY204, S.N 1043131, 3113878
	Determination of total nitrogen content and calculation of crude protein content	ES 5465-1: 2006 ISO 5983-1 :2002	<b>Balance</b> Model Citizen CY204, USA S.N 1043131, 3113878 <b>Digital Burette</b> Manufacturer Micro- kjeldahl, Germany S.N 12H14340, 12H14339
	Determination of total phosphorus	ES 4185:2005 ISO 6491:1998	<b>Spectrophotometer</b> Manufacturer Labomed, inc. Model spetro22, S.N 221101 <b>Balance</b> Model Citizen CY204, S.N 1043131, 3113878 <b>Muffle Furnace</b> Model : M1 811, Electro- Mage, SN: 899221

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تليفون : ٢٥٢٧٥٢٢٠/٥/٦/٧ (٢٠٢)  
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Material / Products Tested	Type of Tests / Properties Measured / Range of Measurements	Standard Specifications / Techniques Used	
Pet foods and animal feeds	Determination of Crude Oil and Fats	(EN) 26.2.2009, L54/ 37, Volume 52.	<b>Balance</b> Model Citizen CY204, USA . S.N 1043131, 3113878 <b>Drying Oven</b> Manufacturer Super Serving Science ,UK S.N 137 <b>Soxhelt- extraction apparatus</b> Manufacturer UK
	Determination of Crude Fiber	(EN) 26.2.2009, L54/ 40, Volume 52.	<b>Muffle Furnace</b> Model: Mi 811, Electro- Mage, SN: 899221 <b>Balance</b> Model: Citizen CY 204,USA, SN: 1043131, 3113878. <b>Drying Oven:</b> Manufacturer Super Serving Science ,UK S.N 137

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فاكس : 25275224 (202)

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Feed Additives	Determination of crude ash	ES 5464:2006 ISO 5984:2002	Muffle Furnace Model : M1 811,Electro- Mage, SN: 899221 Balance Model Citizen CY204,USA S.N 1043131, 3113878	
	Determination of total phosphorus	ES 4185:2005 ISO 6491:1998	Spectrophotometer Manufacturer Labomed, inc. Model spetro22, S.N 221101 Balance Model Citizen CY204, S.N 1043131, 3113878 Muffle Furnace Model M1 811,Electro- Mage, SN: 899221	
	<b>Determination of metals</b>	<b>LOQ (µg/l)</b>	ES 5861 :2007 ISO 6869: 2000	Atomic Absorption Spectrophotometer Manufacturer GBC ,Australia Model Savant AA, S.N A7322(flame and graphite furnace) Manufacturer Perkin Elmer Model 2380, S.N 131865(flame) Muffle Furnace Model : M1 811,Electro- Mage SN: 899221
	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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	Determination of metals	LOQ (µg/l)	ISO 15586:2003 ES 4924:2005 ISO 8288:1986	Atomic Absorption Spectrophotometer Manufacturer GBC ,Australia Model Savant AA, S.N A7322(flame and graphite furnace) Manufacturer Perkin Elmer Model 2380, S.N 131865(flame)
water and Waste Water	Zinc (Zn)	10.0		
	Copper (Cu)	60.0		
	Iron (Fe)	60.0		
	Mangnese (Mn)	0.943		
	Cadmium (Cd)	0.115		
	Nickel (Ni)	5.461		
	Chromium (Cr)	0.860		
	Lead (Pb)	1.240		
	Aluminium (Al)	4.932		

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Animal Feeds	Determination of moisture and volatile matter content	ES 5462: 2006 ISO 6496:1999	<b>Drying Oven</b> Manufacturer Super Serving Science ,UK S.N 137 <b>Digital Balance</b> Model Citizen CY204,USA, S.N 1043131, 113878
	Determination of total nitrogen content and calculation of crude protein content	ES 5465-1: 2006 ISO 5983-1 :2002	<b>Balance</b> Model Citizen CY204,USA S.N 1043131, 3113878 <b>Digital Burette</b> S.N 12H14340, 12H14339
	Determination of total phosphorus	ES 4185:2005 ISO 6491:1998	<b>Spectrophotometer</b> Manufacturer Labomad Model spetro22, S.N 221101 <b>Digital Balance</b> Model Citizen CY204,USA, S.N1043131, 3113878 <b>Muffle Furnace</b> Model : M1 811,Electro- Mage, SN: 899221
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	Determination of Crude Fiber	(EN) 26.2.2009, L54/40, Volume 52	<b>Muffle Furnace</b> Model: Mi 811, Electro- Mage, SN:899221 <b>Drying Oven</b> Manufacturer Super Serving Science ,UK S.N 137 <b>Digital Balance</b> Model: Citizen CY 204,USA, SN: 1043131, 3113878.
	<b>Determination of metals</b>	ES 5861 :2007 ISO 6869:2000	<b>Atomic Absorption Spectrophotometer</b> Manufacturer GBC Australia Model Savant AA, S.N A7322 Manufacturer Perkin Elmer Model 2380, S.N 131865
	<b>LOQ (mg/L)</b>		
	Magnasium (Mg)	0.007	
	Calcium (Ca)	0.004	
	Mangnese (Mn)	0.010	
	Zinc (Zn)	0.025	
	Copper (Cu)	0.007	
	Iron (Fe)	0.054	

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