

Department of Livestock Development Ministry of Agriculture and Cooperatives

This is to certify that

BETAGRO SCIENCE CENTER COMPANY LIMITED, SCIENCE PARK

136 Moo 9, Klong Nueng, Klong Luaung, Pathumthani, 12120 Thailand.

Has been designated as livestock products analysis laboratory by Department of Livestock Development

Registered Testing Scopes are as follows

Designation code 009-54(1)/10-2565

Date of issue 10 May 2022

Valid until 9 May 2025

S. Chawlul

(DR.SOPAT CHAVALKUL, DVM.)

DEPUTY DIRECTOR GENERAL

DEPARTMENT OF LIVESTOCK DEVELOPMENT

FOR DIRECTOR GENERAL



Name of Laboratory

: BETAGRO SCIENCE CENTER COMPANY LIMITED,

SCIENCE PARK

Address

: 136 Moo 9, Klong Nueng, Klong Luaung, Pathumthani,

12120 Thailand.

Designation Code

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Type of Sample	Test	Method
1. Meat and Meat	Aerobic Plate Count	Compendium of Methods for the
Products	(CFU)	Microbiological Examination of Foods.
(Fresh, Frozen, Chilled,		2015. 5 th Edition. Chapter 8.
Heat Treated,	Enterococci (CFU)	NordVal International Certificate No.047
Processed)	Coliforms (MPN)	ISO 4831 : 2006
- Ready-to-eat	Salmonella spp.	AFNOR Certificate No. BIO 12/10-09/02
(with livestock	(Detected or Not Detected)	ISO 6579-1 : 2017/Amd.1 : 2020
ingredient)	Listeria monocytogenes	AFNOR Certificate No. BIO 12/11-03/04.
- Ready-to-cook	(Detected or Not Detected)	ISO 11290-1 : 2017
(with livestock	Escherichia coli (MPN)	FDA BAM <i>Online</i> , 2020. (Chapter 4)
ingredient)	Staphylococcus aureus	FDA BAM <i>Online</i> , 2016. (Chapter 12)
- Semi processed Food	(MPN)	
(with livestock	Clostridium perfringens	FDA BAM <i>Online</i> , (2001). (Chapter 16)
ingredient)	(CFU, Detected or	
	Not Detected)	
	Yeasts and Molds (CFU)	AOAC (2019) 997.02

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Type of Sample	Test	Method
2.	Coliforms (CFU)	AOAC (2019) 991.14
- Ready-to-eat	Escherichia coli (CFU)	
(with livestock	Enterobacteriaceae (CFU)	AOAC (2019) 2003.01
ingredient)	Enterococcus spp. (CFU)	Compendium of Methods for the
- Ready-to-cook		Microbiological Examination of Foods.
(with livestock		2015. 5 th Edition. Chapter 10.
ingredient)		
- Semi processed Food		
(with livestock		
ingredient)		
3. Meat and Meat	Coliforms (CFU)	AOAC (2019) 998.08
Products	Escherichia coli (CFU)	
(Fresh, Frozen, Chilled,	Staphylococcus aureus	AOAC (2019) 2003.11
Heat Treated,	(CFU)	
Processed)		

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Type of Sample	Test	Method
4. Egg and Egg	Salmonella spp.	AFNOR Certificate No. BIO 12/10-09/02
Products	(Detected or Not Detected)	ISO 6579-1 : 2017/Amd.1 : 2020
	Aerobic Plate Count (CFU)	Compendium of Methods for the
		Microbiological Examination of Foods.
		2015. 5 th Edition. Chapter 8.
	Coliforms (MPN)	ISO 4831 : 2006
	Staphylococcus aureus	FDA BAM <i>Online</i> , 2016. (Chapter 12)
	(CFU)	
5. Animal feed and	Aerobic Plate Count (CFU)	AFNOR Certificate number 3M 01.01-
Feeding Stuff		09.89
	Salmonella spp.	ISO 6579-1 : 2017/Amd.1 : 2020
	(Detected or Not Detected)	AFNOR Certificate No. BIO 12/10-09/02
	Yeasts and Molds Count	AFNOR Certificate reference No. 3M
	(CFU)	01.13-07.14
	Total Aflatoxin	AgraQuant Total Aflatoxin Assay 4/40
		ELISA kit, Article No. 10002098/10002099
		issued version No. 12, 2019 by ELISA
		Technique.

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Type of Sample	Test	Method
5. Animal feed and	Aflatoxin (B1, B2, G1, G2)	In-house method TI-C00-179 based on
Feeding Stuff	and Total Aflatoxin	AOAC (2019) 991.31. by HPLC-FLD
(Continued)		Technique
6. Meat (Pig, Chicken),	Chloramphenicol	In-house Method TI-C00-002 based on
Animal Liver and Meat		Journal of Chromatography B, 791; 2003,
Products (Fresh,		page 31-38 by LC-MS/MS Technique
Frozen, Chilled, Heat		EuroProxima CHLORAMPHENICOL ELISA
Treated, Processed)		(5091CAP) by ELISA technique.
	Nitrofuran Metabolites:	In-house Method TI-C00-001 based on
	(Tissue-bound residue)	Journal of Chromatography B, 691; 1997,
	1. AHD	page 87-94 by LC-MS/MS Technique.
	(1-aminohydantoin)	
	2. SEM (semicarbazide)	
	3. AOZ (3-amino-2-	
	oxazolidinone)	
	4. AMOZ (3-amino-5-	
	morpholinomethyl -2-	
	oxazolidinone)	

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Type of Sample	Test	Method
7. Meat (Pig, Chicken),	Beta-agonist :	In-house Method TI-C00-054 based on
Animal Liver, Animal	1. Clenbuterol	Journal of Chromatography A, 750 ; 1996,
Urine, Animal Organs	2. Salbutamol	page 43-49 by LC-MS/MS Technique
and Meat Products	3. Ractopamine	
(Fresh, Chilled, Frozen,		
Heat Treated,		
Processed)		
8. Pig Urine	Beta-agonist :	In-house Method TI-C00-198 based on
	1. Clenbuterol	Journal of Chromatography A, 750; 1996,
	2. Salbutamol	page 43-49 by LC-MS/MS (Q-Trap)
	3. Ractopamine	Technique
9. Pig Serum	Sulfamethazine	In-house Method TI-C00-145 based on
	(or Sulfadimidine)	Immunoaffinity column of Sulfonamides
		(IAC-SULF) Instruction Manual
		(C/N : IAC 305A) by LC-MS/MS Technique
		In-house Method TI-C00-199 based on
		Immunoaffinity column of Sulfonamides
		(IAC-SULF) Instruction Manual
		(C/N : IAC 305A) by LC-MS/MS (Q-Trap)
		Technique.

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Registration of Testing Scope for designation on Livestock products analysis

by Department of Livestock Development

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Designation code	. 007 54(1)/10 2505	
Type of Sample	Test	Method
10. Dog Chew	Salmonella spp.	ISO 6579-1 : 2017/Amd.1 : 2020
		AFNOR Certificate No. BIO 12/10-09/02
	Enterobacteriaceae	NF Validation Certification No. 3M
		01.06-09.97
11. Meat (Pig, Chicken)	Chloramphenicol	In-house Method TI-C00-193 based on
and Meat Products		Journal of Chromatography B, 791: 2003,
(Fresh, Frozen, Chilled,		page 31-38 by LC-MS/MS (Q-Trap)
Heat Treated,		Technique.
Processed)		

Remark

If there are further scientific evidences convincing that any rapid method, proprietary method or alternative method has drawback which might affect the testing validity or inappropriate for livestock product exports testing, the Department of livestock development may withdraw such certified scope of testing.

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