

Department of Livestock Development Ministry of Agriculture and Cooperatives

This is to certify that

BETAGRO SCIENCE CENTER CO., LTD. (Lop Buri)

219 Moo 1, Chongsarika, Patthananikom, Lop Buri, 15220 Thailand.

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

Registered Testing Scopes are as follows

Designation code 007-54(1)/10-2565

Date of issue 7 July 2022

Valid until 6 July 2025

(DR.SOPAT CHAVALKUL, DVM.)

DEPUTY DIRECTOR GENERAL

DEPARTMENT OF LIVESTOCK DEVELOPMENT



Registration of Testing Scope for designation on Livestock products analysis

by Department of Livestock Development

Name of Laboratory : BETAGRO SCIENCE CENTER CO., LTD. (Lop Buri)

Address : 219 Moo 1, Chongsarika, Patthananikom, Lop Buri,

15220 Thailand.

Designation Code : 007-54(1)/10-2565

Type of Sample	Test	Method
1. Meat and meat	Clostridium perfringens	FDA BAM <i>Online</i> , 2001 (Chapter 16)
products	(CFU, Detected or not	
(Fresh, Chilled,	detected)	
Frozen, Heat Treated,	Coliforms (MPN)	FDA BAM <i>Online</i> , 2020 (Chapter 4)
Processed)	E.coli (MPN)	
	Listeria monocytogenes	AFNOR Certificate No. BIO 12/11-03/04
	(Detected or not detected)	ISO 11290-1: 2017
	Staphylococcus aureus	AOAC (2019) 2003.11
	(CFU)	
	Yeasts (CFU)	ISO 21527-1: 2008
	Molds (CFU)	ISO 21527-2: 2008
	Yeasts and Molds (CFU)	
2. Poultry neck skin	Campylobacter spp. (CFU)	ISO 10272-2 : 2017

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Type of Sample	Test	Method
3.	Enterococci (CFU)	Compendium of Methods for the
- Meat and meat		Microbiological Examination of Foods,
products (Fresh,		(APHA), 5 th Edition, 2015 (Chapter 10)
Chilled, Frozen,		NordVal Certificate No.047
Processed)	Total Viable Count 30 °C	ISO 4833-1 : 2013
- Egg and egg	(CFU)	
products	Total Viable Count 35 °C	AOAC RI Certificate No. 010404
(Fresh, Chilled,	(CFU)	Compendium of Methods for the
Frozen, Processed)		Microbiological Examination of Foods,
- Ready to Eat Foods		(APHA), 5 th edition, 2015 (Chapter 8)
(with livestock	Salmonella spp.	ISO 6579-1 : 2017/Amd.1 : 2020 (E)
ingredient)	(Detected or not detected)	AFNOR Certificate No. : UNI 03/07-11/13
- Ready to Cook		AFNOR Certificate No. BIO 12/16-09/05
Foods		AFNOR Certificate number : BIO 12/38-
(with livestock		06/16
ingredient)	Staphylococcus aureus	ISO 6888-1 : 2021 (Coagulase-positive
-Semi processed	(CFU)	staphylococci)
Foods (with livestock		FDA BAM <i>Online</i> , 2016 (Chapter 12)
ingredient)		(Biochemical test)
		NordVal Certificate No.042

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Type of Sample	Test	Method
3.	Coliforms (CFU)	Compact Dry EC, AOAC RI Certificate No.
- Meat and meat	E. coli (CFU)	110402
products (Fresh,	Coliforms (CFU, MPN)	Compendium of Methods for the
Chilled, Frozen,	E. coli (CFU, MPN)	Microbiological Examination of Foods,
Processed)		(APHA), 5 th edition 2015 (Chapter 9)
- Egg and egg	Yeasts (CFU)	Compendium of Methods for the
products	Molds (CFU)	Microbiological Examination of Foods,
(Fresh, Chilled,	Yeasts and Molds (CFU)	(APHA), 5 th Edition 2015 (Chapter 21)
Frozen, Processed)		AOAC (2019) 2014.05
- Ready to Eat Foods	Enterobacteriaceae (CFU)	Compendium of Methods for the
(with livestock		Microbiological Examination of Foods,
ingredient)		(APHA), 5 th Edition, 2015 (Chapter 9)
- Ready to Cook		
Foods		
(with livestock		
ingredient)		
-Semi processed		
Foods (with livestock		
ingredient)		
(Continued)		

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Type of Sample	Test	Method
4. Meat and Animal	Detection of Anti-Bacterial	In-house method TI-B00-017 by six-plate
organ (Fresh, Chilled,	substance residues	agar diffusion assay
Frozen)	(Screening test) (Detected	
	or not detected)	
5.	Protein	In-house method TI-C00-016 based on
- Feeding stuffs		ISO 5983-2 : 2009
- Raw materials	Moisture	ISO 6496 : 1999
- Pet food	Fat	In-house method TI-C00-015 based on
		AOAC (2019) 920.39
		In-house method TI-C00-097 based on
		AOCS (2010) Am 5-04
	Fat (Acid hydrolysis)	In-house method TI-C00-027 based on
		ISO 6492 : 1999
	Ash	AOAC (2019) 942.05
	Fiber	In-house method TI-C00-040 based on
		AOAC (2019) 978.10
		In-house method TI-C00-092 based on
		AOCS (2016) Ba 6a-05
	Sodium Chloride (NaCl)	In-house method TI-C00-020 based on
		ISO 6495 : 1999
	Crude protein	AOAC (2019) 990.03

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Type of Sample	Test	Method
6. Animal Fat	Organochlorine :	In-house method TI-C00-001 based on
	- Aldrin	Journal AOAC, Vol. 67, No. 2 (1984)
	- Dieldrin	
	- Endrin	
	- Heptachlor	
	- Heptachlor epoxide	
	- trans-Chlordane	
	- Hexachlorobenzene	
	- alpha-BHC	
	- beta-BHC	
	- gamma-BHC	
	- Oxychlordane	
	- cis-chlordane	
	- 4,4'DDE	,
	- 2,4'DDT	
	- 4,4'DDD	
	- 4,4'DDT	

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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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