



Registration of Testing Scope for designation on Livestock products analysis
by Department of Livestock Development

Name of Laboratory : BETAGRO SCIENCE CENTER COMPANY LIMITED,
SCIENCE PARK
Address : 136 Moo 9, Klong Nueng, Klong Luang, Pathumthani,
12120 Thailand.
Designation Code : 009-54(1)/12-2567

Type of Sample	Test	Method
1. Meat and Meat Products (Fresh, Frozen, Chilled, Heat Treated, Processed) - Ready-to-eat (with livestock ingredient) - Ready-to-cook (with livestock ingredient) - Semi processed Food (with livestock ingredient)	Aerobic Plate Count (CFU)	Compendium of Methods for the Microbiological Examination of Foods. 2015. 5 th Edition. Chapter 8.
	Enterococci (CFU)	NordVal International Certificate No.047
	Coliforms (MPN)	ISO 4831 : 2006
	<i>Salmonella</i> spp. (Detected or Not Detected)	AFNOR Certificate No. BIO 12/10-09/02
		AFNOR Certificate No. UNI 03/07 -11/13
	<i>Listeria monocytogenes</i> (Detected or Not Detected)	ISO 6579-1 : 2017/Amd.1 : 2020
		AFNOR Certificate No. BIO 12/11-03/04.
		AFNOR Certificate No. UNI 03/08-11/13.
	<i>Escherichia coli</i> (MPN)	ISO 11290-1 : 2017
		FDA BAM Online, 2020. (Chapter 4)
<i>Staphylococcus aureus</i> (MPN)		FDA BAM Online, 2016. (Chapter 12)
<i>Clostridium perfringens</i> (CFU, Detected or Not Detected)		FDA BAM Online, (2001). (Chapter 16)
Yeasts and Molds (CFU)	AOAC (2019) 997.02	

Date of issue : 1 April 2024
Valid until : 9 May 2025

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Type of Sample	Test	Method
2. - Ready-to-eat (with livestock ingredient) - Ready-to-cook (with livestock ingredient) - Semi processed Food (with livestock ingredient)	Coliforms (CFU)	AOAC (2019) 991.14
	<i>Escherichia coli</i> (CFU)	
	Enterobacteriaceae (CFU)	AOAC (2019) 2003.01
	<i>Staphylococcus aureus</i> (CFU)	AOAC (2019) 2003.07
3. Meat and Meat Products (Fresh, Frozen, Chilled, Heat Treated, Processed)	Coliforms (CFU)	AOAC (2019) 998.08
	<i>Escherichia coli</i> (CFU)	
	<i>Staphylococcus aureus</i> (CFU)	AOAC (2019) 2003.11
4. Poultry Neck Skin	<i>Campylobacter</i> spp. (CFU)	ISO 10272-2 : 2017

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Type of Sample	Test	Method
5. Egg and Egg Products	<i>Salmonella</i> spp. (Detected or Not Detected)	AFNOR Certificate No. BIO 12/10-09/02 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.
	Yeasts and Molds (CFU)	AOAC (2019) 997.02
	Coliforms (MPN)	ISO 4831 : 2006
	Coliforms (CFU)	AOAC (2019) 998.08
	<i>Escherichia coli</i> (CFU)	
	<i>Staphylococcus aureus</i> (CFU)	FDA BAM <i>Online</i> , 2016. (Chapter 12)
6. Animal feed and raw material	Aerobic Plate Count (CFU)	AFNOR Certificate number 3M 01.01-09.89
	Yeasts and Molds Count (CFU)	AFNOR Certificate Reference No. 3M 01.13-07.14
	<i>Salmonella</i> spp. (Detected or Not Detected)	ISO 6579-1 : 2017/Amd.1 : 2020 AFNOR Certificate No. BIO 12/10-09/02
	<i>Enterobacteriaceae</i> (CFU)	NF Validation Certification No. 3M 01.06-09.97

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Type of Sample	Test	Method
7. Meat (Pig, Chicken), Animal Organs and Meat Products (Fresh, Frozen, Chilled, Heat Treated, Processed)	Nitrofurans Metabolites: (Tissue-bound residue) 1. AHD (1-aminohydantoin) 2. SEM (semicarbazide) 3. AOZ (3-amino-2- oxazolidinone) 4. AMOZ (3-amino-5- morpholinomethyl -2-oxazolidinone)	In-house Method TI-BSCSP-CHEM-001 based on Journal of Chromatography B, 691; 1997, page 87-94 by LC-MS/MS Technique.
8. Meat (Pig, Chicken) and Meat Products (Fresh, Frozen, Chilled, Heat Treated, Processed)	Chloramphenicol	In-house Method TI-BSCSP-CHEM-060 based on Journal of Chromatography B, 791; 2003, page 31-38 by LC-MS/MS (Q-Trap) Technique. EuroProxima CHLORAMPHENICOL ELISA (5091CAP) by ELISA technique.

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Type of Sample	Test	Method
9. Meat (Pig, Chicken), Animal Liver, Animal Urine, Animal Organs and Meat Products (Fresh, Chilled, Frozen, Heat Treated, Processed)	Beta-agonist : 1. Clenbuterol 2. Salbutamol 3. Ractopamine	In-house Method TI-BSCSP-CHEM-006 based on Journal of Chromatography A, 750 ; 1996, page 43-49 by LC-MS/MS Technique
10. Pig Urine	Beta-agonist : 1. Clenbuterol 2. Salbutamol 3. Ractopamine	In-house Method TI-BSCSP-CHEM-062 based on Journal of Chromatography A, 750 ; 1996, page 43-49 by LC-MS/MS (Q-Trap) Technique
11. Pig Serum	Sulfamethazine (or Sulfadimidine)	In-house Method TI-BSCSP-CHEM-033 based on Immunoaffinity column of Sulfonamides (IAC-SULF) Instruction Manual (C/N : IAC 305A) by LC-MS/MS Technique

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Type of Sample	Test	Method
11. Pig Serum (Continued)	Sulfamethazine (or Sulfadimidine)	In-house Method TI-BSCSP-CHEM-063 based on Immunoaffinity column of Sulfonamides (IAC-SULF) Instruction Manual (C/N : IAC 305A) by LC-MS/MS (Q-Trap) Technique.
12. Animal feed and raw Material	Total Aflatoxin	AgraQuant Total Aflatoxin Assay 4/40 ELISA kit, Article No. 10002098/10002099 by ELISA Technique.
	Aflatoxin (B1, B2, G1, G2) and Total Aflatoxin	In-house method TI-BSCSP-CHEM-050 based on AOAC (2019) 991.31. by HPLC-FLD Technique.

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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