

Name of Laboratory : CPF (Thailand) Laboratory K.M. 21, CPF (Thailand) Public Company Limited
Address : 57 Moo 1, Bangna-Trad Road, K.M. 21, Tambon Sisa Chorakhe Yai,
Amphoe Bangsaothong, Changwat Samuthprakarn 10540
Accreditation Number : Testing - 0021
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Initial Issue Date : 20th December 2007
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Expired date : 26th February 2027
Standard : ISO/IEC 17025:2017
Reference No. : 0303/3312

Scope of Laboratory Accreditation

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Laboratory Status : Permanent Site Temporary Mobile

Item Number	Test Material / Product	Test item / Range of Testing	Test Method / Technique Used
1	Feed	- Moisture 7.40 g/100 g to 11.9 g/100 g - Crude protein 11.3 g/100 g to 48.3 g/100 g - Crude protein 11.4 g/100 g to 45.1 g/100 g - Fat 1.80 g/100 g to 11.5 g/100 g - Crude fiber 1.80 g/100 g to 16.6 g/100 g	ISO 6496 : 1999 In - house method : TE-ORG-01 based on ISO 5983-2 : 2009 In - house method : TE-ORG-05 based on ISO 16634-1 : 2008 In - house method : TE-ORG-07 based on AOCS Standard Procedure AM5-04, 2017 In - house method : TE-ORG-04 based on AOCS Standard Procedure Ba6a-05, 2017

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1 (cont.)	Feed	- Ash 4.90 g/100 g to 15.5 g/100 g - Moisture 7.40 g/100 g to 11.9 g/100 g - Crude Protein 11.4 g/100 g to 26.4 g/100 g - Fat 2.10 g/100 g to 11.5 g/100 g - Crude fiber 1.80 g/100 g to 9.90 g/100 g	ISO 5984 : 2002 ISO 12099 : 2017

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1 (cont.)	Feed	- Phytase activity 110 FTU/kg to 2 500 FTU/kg - <i>Enterobacteriaceae</i> cfu/g - <i>Enterobacteriaceae</i> cfu/g - <i>Salmonella</i> spp. Detected or not detected / 25 g - <i>Salmonella</i> spp. Detected or not detected / 25 g - Starch 10.0 g/100 g to 38.0 g/100 g	In - house method : TE-ENZ-01 based on AOAC Official Methods of Analysis, 21 st ed., 2019, method 2000.12 ISO 21528-2 : 2017 In - house method : TE-MIC-03 based on AOAC Official Methods of Analysis, 21 st ed., 2019, method 2003.01 ISO 6579-1 : 2017 AOAC Performance Tested Certificate No. 120301 In - house method : TE-ORG-06 based on ISO 6493 : 2000

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1 (cont.)	Feed	- Tryptophan 0.130 g/100 g to 0.400 g/100 g - Salinomycin 0.050 mg/kg to 80.0 mg/kg - Narasin 0.050 mg/kg to 50.0 mg/kg - Nicarbazin 0.050 mg/kg to 50.0 mg/kg - Monensin 0.050 mg/kg to 110 mg/kg	In - house method : TE-BIO-05 based on Official Journal of the European Communities PART G., 26.2.2009 In - house Method : TE-BIO-14 based on Journal of Chromatography A, 1217 (2010), p. 6394-6404

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1 (cont.)	Feed	- Robenidine 0.050 mg/kg to 40.0 mg/kg - Lasalocid 0.050 mg/kg to 110 mg/kg - Maduramicin 0.050 mg/kg to 10.0 mg/kg - Amoxicillin 0.500 mg/kg to 300 mg/kg - Avilamycin 1.00 mg/kg to 100 mg/kg	In – house Method : TE-BIO-14 based on Journal of Chromatography A, 1217 (2010), p. 6394-6404 In – house Method : TE-BIO-15 based on Journal of Chromatography A, 1217 (2010), p. 6394-6404

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1 (cont.)	Feed	- Lincomycin 0.100 mg/kg to 100 mg/kg - Kitasamycin 0.100 mg/kg to 200 mg/kg - Tiamulin 0.100 mg/kg to 150 mg/kg - Tilmicosin 0.100 mg/kg to 200 mg/kg - Tylosin 0.100 mg/kg to 200 mg/kg	In – house Method : TE-BIO-15 based on Journal of Chromatography A, 1217 (2010), p. 6394-6404

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1 (cont.)	Feed	- Urea 0.01 g/100 g to 2.00 g/100 g - Acid detergent fiber 4.50 g/100 g to 23.4 g/100 g - Aflatoxin B ₁ 1.00 µg/kg to 40.0 µg/kg - Gross Energy 3 711 cal/g to 4 200 cal/g	In - house method : TE-BIO-07 based on AOAC Official Methods of Analysis, 21 st ed., 2019, method 967.07 In - house method : TE-ORG-10 based on ANKOM Technology, 2014, method 5 In - house method : TE-TOX-01 based on Anal Bioanal Chem, Vol. 402, 2012, p. 2675-2686 ISO 12099 : 2017

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2	Feeding stuffs	- Aerobic plate count cfu/g - <i>Salmonella</i> spp. Detected or not detected / 25 g - <i>Salmonella</i> spp. Detected or not detected / 25 g - Aerobic plate count cfu/g	In - house method : TE-MIC-02 based on AOAC Official Methods of Analysis, 21 st ed., 2019, method 990.12 AOAC Performance Tested Certificate No. 120301 In - house method : TE-MIC-16 based on Salmonella - A Diversified Superbug, Chapter 27, 2012, p. 541-562 In - house method : TE-MIC-14 based on AOAC Official Methods of Analysis, 21 st ed., 2019, method 2015.13

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2 (cont.)	Feeding stuffs	- Total Mold Count cfu/g	AFNOR Validation Certificate No. BKR 23/11-12/18
		- Gross Energy 2 888 cal/g to 5 304 cal/g	In - house method : TE-ORG-09 based on ISO 9831 : 1998
		- Gross Energy 3 600 cal/g to 4 200 cal/g	ISO 12099 : 2017
3	Whey powder	- Protein 2.60 g/100 g to 23.3 g/100 g	In - house method : TE-ORG-01 based on ISO 5983-2 : 2009
		- Protein 2.70 g/100 g to 22.0 g/100 g	In - house method : TE-ORG-05 based on ISO 16634-1 : 2008

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3 (cont.)	Whey powder	- Calcium 0.450 g/100 g to 5.50 g/100 g - Phosphorus 0.450 g/100 g to 1.85 g/100 g - Potassium 1.80 g/100 g to 4.00 g/100 g	In - house method : TE-INO-07 based on EN 15510: 2017
4	Enzyme	- Phytase activity 2 000 FTU/g to 25 000 FTU/g - Xylanase activity 2 700 IU/g to 3 500 IU/g	In - house method : TE-ENZ-01 based on AOAC Official Methods of Analysis, 21 st ed., 2019, method 2000.12 In house method : TE-ENZ-03 based on Anal Bioanal Chem, Vol. 374, 2002, p. 80–87

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5	Oil - Vegetable oil - Animal oil	- α - linolenic acid (ALA-3) 0.100 g/100 g to 3.56 g/100 g - Eicosapentaenoic acid (EPA) 0.100 g/100 g to 38.1 g/100 g - Docosahexaenoic acid (DHA) 0.100 g/100 g to 17.5 g/100 g	In - house method : TE-BIO-17 based on AOAC Official Methods of Analysis, 21 st ed., 2019, method 996.06
6	Ice cream	- Aerobic plate count cfu/g - Aerobic plate count cfu/g - <i>Salmonella</i> spp. Detected or not detected / 25 g	AOAC Official Methods of Analysis, 21 st ed., 2019, method 989.10 AOAC Official Methods of Analysis, 21 st ed., 2019, method 2015.13 AOAC Performance Tested Certificate No. 120301

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6 (cont.)	Ice cream	- <i>Listeria monocytogenes</i> Detected or not detected / 25 g	AFNOR Validation Certificate No. BRD 07/04-09/98
		- Presumptive <i>Bacillus cereus</i> cfu/g	AFNOR Validation Certificate No. AES 10/10 - 07/10
		- <i>Staphylococcus aureus</i> Detected or not detected / 25 g	Surefast® <i>Staphylococcus aureus</i> PLUS, Art. No. F5116
7	Soybean and soybean product	- Trypsin inhibitor activity 3.40 TIU/mg to 53.0 TIU/mg	In - house method : TE-ENZ-02 based on AOCS Official Method Ba 12-75 : 1989

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7 (cont.)	Soybean and soybean product	- Sucrose 0.010 g/100 g to 6.00 g/100 - Stachyose 0.040 g/100 g to 5.00 g/100 g - Raffinose 0.010 g/100 g to 2.00 g/100 g - Soluble protein 68.5 g/100 Crude Protein to 91.9 g/100 Crude Protein - Soluble protein 70.0 g/100 Crude Protein to 91.9 g/100 Crude Protein	In - house method : TE-BIO-09 based on Journal Agric. Food Chem, Vol 39, 1991, p. 689-694 In - house method : TE-ORG-11 based on ISO 14244 : 2014 ISO 12099 : 2017

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8	Feed material of animal origin	- Urea 0.01 g/100 g to 2.00 g/100 g	In - house method : TE-BIO-08 based on AOAC Official Methods of Analysis, 21 st ed., 2019, method 967.07
		- Urea Detected or not detected	In - house method : TE-MCS-01 based on The American Association of Feed Microscopists, 2 nd ed., 1978, p. 107-108
		- Detection of beef DNA contaminate Detected or not detected / 25 g	DNeasy [®] mericon [®] Food Kit, and SureFood [®] ANIMAL ID Beef IAAC, Art. No. S6113
		- Detection of feather contaminate Detected or not detected	In - house method : TE-MCS-02 based on AOAC Official Methods of Analysis, 21 st ed., 2019, method 970.09

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8 (cont.)	Feed material of animal origin	- Butylated hydroxytoluene 7.55 mg/kg to 350 mg/kg - Butylated hydroxyanisol 3.40 mg/kg to 350 mg/kg - Ethoxyquin 2.25 mg/kg to 100 mg/kg	In - house Method : TE-BIO-13 based on AOAC Official Methods of Analysis, 21 st ed., 2019, method 996.13
9	Feed material	- Calcium 0.050 g/100 g to 18.0 g/100 g - Potassium 0.050 g/100 g to 2.30 g/100 g	In - house method : TE-INO-08 based on EN 15510 : 2017

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9 (cont.)	Feed material	- Sodium 0.100 g/100 g to 3.00 g/100 g	In - house method : TE-INO-08 based on EN 15510 : 2017
		- Magnesium 0.100 g/100 g to 1.00 g/100 g	
		- Phosphorus 0.200 g/100 g to 9.50 g/100 g	
		- Moisture 9.80 g/100 g to 15.0 g/100 g	ISO 712 : 2009
		- Crude Protein 1.60 g/100 g to 88.4 g/100 g	In - house method : TE-ORG-01 based on ISO 5983-2 : 2009
		- Crude Protein 15.6 g/100 g to 16.7 g/100 g	In - house method : TE-ORG-05 based on ISO 16634-1 : 2008

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9 (cont.)	Feed material	- Fat 1.60 g/100 g to 22.8 g/100 g	In – house method : TE- ORG -07 based on AOCS Official Procedure Am 5–04, 2017
		- Ash 0.10 g/100 g to 41.0 g/100 g	ISO 5984 : 2002
		- Crude fiber 1.50 g/100 g to 30.7 g/100 g	In – house method : TE-ORG-04 based on AOCS Standard Procedure Ba 6a-04, 2017
		- Moisture 9.80 g/100 g to 14.9 g/100 g	ISO 12099 : 2017
		- Crude protein 1.60 g/100 g to 88.4 g/100 g	

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9 (cont.)	Feed material	- Fat 2.20 g/100 g to 22.8 g/100 g	ISO 12099 : 2017
		- Crude fiber 1.50 g/100 g to 30.7 g/100 g	
		- Tryptophan 0.060 g/100 g to 0.800 g/100 g	In - house method : TE-BIO-11 based on Official Journal of the European Union, PART G, 26.2.2009
	Feed material	- Starch	In – house method : TE- ORG -06
	- Barley	38.2 g/100 g to 82.9 g/100 g	based on ISO 6493 : 2000
	- Soybean Meal		
	- Tapioca		

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10	Maize	- Moisture 8.3 g/100 g to 32.0 g/100 g - Moisture 13.0 g/100 g to 32.0 g/100g - Fat 3.10 g/100 g to 5.50 g/100g - Gross Energy 3 778 cal/g to 4 142 cal/g - Aflatoxin B ₁ 2.00 µg/kg to 45.0 µg/kg	ISO 6540 : 2017 ISO 12099 : 2017 In - house method : TE-TOX-01 based on Anal Bioanal Chem, Vol. 402, 2012, p. 2675–2686

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11	Sponge swab	- <i>Salmonella</i> spp. Detected or not detected / piece	In - house method : TE-MIC-12 based on AOAC Performance Tested Certificate No. 120301
		- <i>Salmonella</i> spp. Detected or not detected / piece	In - house method : TE-MIC-17 based on Salmonella - A Diversified Superbug, Chapter 27, 2012, p. 541-562
12	Pet food	- Protein 15.6 g/100 g to 16.7 g/100 g	In - house method : TE-ORG-05 based on ISO 16634-1 : 2008
13	Milk product for animals - Whey powder - Lactose	- Lactose 0.500 g/100 g to 80.0 g/100 g	In - house method : TE-BIO -16 based on Journal Agric. Food Chem. Vol. 47, 1999, p.157-163

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14	Tapioca - Pellet - Chips - Tapioca Fiber	- Starch 39.0 g/100 g to 76.0 g/100 g	ISO 12099 : 2017
15	Meat - Swine - Chicken - Fish	- α - linolenic acid (ALA-3) 0.010 g/100 g to 1.00 g/100 g - Eicosapentaenoic acid (EPA) 0.010 g/100 g to 0.300 g/100 g - Docosahexaenoic acid (DHA) 0.010 g/100 g to 1.00 g/100 g	In - house method : TE-BIO-18 based on AOAC Official Methods of Analysis, 21 st ed., 2019, method 996.06
16	Water	- Manganese 0.030 mg/L to 0.900 mg/L - Zinc 0.400 mg/L to 13.0 mg/L - Iron 0.400 mg/L to 0.850 mg/L	In - house method : TE-INO-10 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B

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16 (cont.)	Water	- Cobalt 1.25 µg/L to 5.00 µg/L - Cadmium 1.25 µg/L to 5.0 µg/L - Lead 7.50 µg/L to 25.00 µg/L - Copper 125 µg/L to 1 000 µg/L	In - house method : TE-INO-10 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23 rd ed., 2017, part 3120 B

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