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

Contact Person : Miss Prapatsorn Chansamorn

Phone: 0-2312-8333-41,0-2740-0309-24

E-mail: prapatsorn@cpf.co.th

: 20th December 2007

Fax: 0-2740-0297

Initial Issue Date

: 27th February 2023 Issue Date

: 26th February 2027 Expired date

Standard : ISO/IEC 17025:2017

Reference No. : 0303/3312

Scope of Laboratory Accreditation

Laboratory Name : 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

Laboratory Status : $oxed{D}$ Permanent $oxed{\Box}$ Site $oxed{\Box}$ Temporary $oxed{\Box}$ Mobile

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

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Scope of Laboratory Accreditation

☐ Temporary

☐ Mobile

Laboratory Name : CPF (Thailand) Laboratory K.M. 21, CPF (Thailand) Public Company Limited

☐ Site

1.80 g/100 g to 9.90 g/100 g

Address : 57 Moo 1, Bangna-Trad Road, K.M. 21, Tambon Sisa Chorakhe Yai,

Amphoe Bangsaothong, Changwat Samuthprakarn 10540

Accreditation Number : Testing - 0021

Laboratory Status

: **☑** Permanent

Test Material / Test item / Test Method / Item Number **Product** Range of Testing Technique Used 1 Feed - Ash ISO 5984: 2002 (cont.) 4.90 g/100 g to 15.5 g/100 g ISO 12099: 2017 - 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

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Scope of Laboratory Accreditation

Laboratory Name : 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

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test item /	Test Method /
Number	Product	Range of Testing	Technique Used
1	Feed	- Calcium	In - house method : TE-INO-05
(cont.)		0.200 g/100 g to 15.0 g/100 g	based on EN 15510: 2017
		- Sodium	
		0.050 g/100 g to 1.50 g/100 g	
		- Phosphorus	
		0.200 g/100 g to 2.70 g/100 g	
		- Magnesium	
		0.150 g/100 g to 0.700 g/100 g	
		- Potassium	
		0.450 g/100 g to 1.50 g/100 g	
		- Manganese	In - house method : TE-INO-06
		35.0 mg/kg to 200 mg/kg	based on EN 15510: 2017
		- Zinc	
		45 mg/kg to 2 500 mg/kg	
		- Iron	
		140 mg/kg to 1 000 mg/kg	
		- Copper	
		10.0 mg/kg to 600 mg/kg	

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Scope of Laboratory Accreditation

Laboratory Name : 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

Laborator	Laboratory Status . E. Fermanent E. Site E. Femporary E. Mobile				
Item	Test Material /	Test item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
1	Feed	- Phytase activity	In - house method : TE-ENZ-01		
(cont.)		110 FTU/kg to 2 500 FTU/kg	based on AOAC Official Methods of		
			Analysis, 21 st ed., 2019, method 2000.12		
		- Enterobacteriaceae	ISO 21528-2 : 2017		
		cfu/g			
		- Enterobacteriaceae	In - house method : TE-MIC-03		
		cfu/g	based on AOAC Official Methods of		
			Analysis, 21 st ed., 2019, method 2003.01		
		- Salmonella spp.	ISO 6579-1 : 2017		
		Detected or not detected / 25 g			
		- Salmonella spp.	AOAC Performance Tested Certificate		
		Detected or not detected / 25 g	No. 120301		
		- Starch	In - house method : TE-ORG-06		
		10.0 g/100 g to 38.0 g/100 g	based on ISO 6493 : 2000		

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Scope of Laboratory Accreditation

Laboratory Name : 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

Laboratory Status : lackimes Permanent lackimes Site lackimes Temporary lackimes Mobile

	Laboratory states . — Terminate — site — Temporary — Mosite				
Item	Test Material /	Test item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
1	Feed	- Tryptophan	In - house method : TE-BIO-05		
(cont.)		0.130 g/100 g to 0.400 g/100 g	based on Official Journal of the		
			European Communities PART G., 26.2.2009		
		- Salinomycin	In – house Method : TE-BIO-14		
		0.050 mg/kg to 80.0 mg/kg	based on Journal of Chromatography A,		
			1217 (2010), p. 6394-6404		
		- 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			

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Scope of Laboratory Accreditation

Laboratory Name : CPF (Thailand) Laboratory K.M. 21, CPF (Thailand) Public Company Limited

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Amphoe Bangsaothong, Changwat Samuthprakarn 10540

Accreditation Number : Testing - 0021

Laboratory Status : lackimes Permanent lackimes Site lackimes Temporary lackimes Mobile

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

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☐ Mobile

Scope of Laboratory Accreditation

: CPF (Thailand) Laboratory K.M. 21, CPF (Thailand) Public Company Limited Laboratory Name

☐ Site

Address : 57 Moo 1, Bangna-Trad Road, K.M. 21, Tambon Sisa Chorakhe Yai,

Amphoe Bangsaothong, Changwat Samuthprakarn 10540

Accreditation Number : Testing - 0021

: **☑** Permanent

☐ Temporary **Laboratory Status** Test Material / Test item / Test Method / Item Range of Testing Technique Used Number Product In – house Method: TE-BIO-15 Feed - Lincomycin (cont.) 0.100 mg/kg to 100 mg/kg based on Journal of Chromatography A, 1217 (2010), p. 6394-6404 - 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

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☐ Mobile

Scope of Laboratory Accreditation

☐ Temporary

Laboratory Name : CPF (Thailand) Laboratory K.M. 21, CPF (Thailand) Public Company Limited

☐ Site

Address : 57 Moo 1, Bangna-Trad Road, K.M. 21, Tambon Sisa Chorakhe Yai,

Amphoe Bangsaothong, Changwat Samuthprakarn 10540

Accreditation Number : Testing - 0021

Laboratory Status

: **☑** Permanent

Test Material / Test item / Test Method / Item Number Product Range of Testing Technique Used In - house method: TE-BIO-07 Feed - Urea 0.01 g/100 g to 2.00 g/100 g based on AOAC Official Methods of (cont.) Analysis, 21st ed., 2019, method 967.07 - Acid detergent fiber In - house method: TE-ORG-10 4.50 g/100 g to 23.4 g/100 g based on ANKOM Technology, 2014, method 5 - Aflatoxin B₁ In - house method: TE-TOX-01 1.00 µg/kg to 40.0 µg/kg based on Anal Bioanal Chem, Vol. 402, 2012, p. 2675-2686 ISO 12099: 2017 - Gross Energy 3 711 cal/g to 4 200 cal/g

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Scope of Laboratory Accreditation

Laboratory Name : 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

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborator	Laboratory Status . La remainent La Site La remporary La Mobile				
Item	Test Material /	Test item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
2	Feeding stuffs	- Aerobic plate count	In - house method : TE-MIC-02		
		cfu/g	based on AOAC Official Methods of		
			Analysis, 21 st ed., 2019, method 990.12		
		- Salmonella spp.	AOAC Performance Tested Certificate		
		Detected or not detected / 25 g	No. 120301		
		- Salmonella spp.	In - house method : TE-MIC-16		
		Detected or not detected / 25 g	based on Salmonella - A Diversified		
			Superbug, Chapter 27, 2012, p. 541-562		
		- Aerobic plate count	In - house method : TE-MIC-14		
		cfu/g	based on AOAC Official Methods of		
			Analysis, 21 st ed., 2019, method 2015.13		

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Scope of Laboratory Accreditation

Laboratory Name : 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

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

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

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Scope of Laboratory Accreditation

Laboratory Name : 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

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

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

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Scope of Laboratory Accreditation

Laboratory Name : 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

Laboratory Status : $oxed{\square}$ Permanent $oxed{\square}$ Site $oxed{\square}$ Temporary $oxed{\square}$ Mobile

Item	Test Material /	Test item /	Test Method /
Number	Product	Range of Testing	Technique Used
5	Oil	- α - linolenic acid (ALA-3)	In - house method : TE-BIO-17
	- Vegetable oil	0.100 g/100 g to 3.56 g/100 g	based on AOAC Official Methods of
	- Animal oil	- Eicosapentaenoic acid (EPA)	Analysis, 21 st ed., 2019, method 996.06
		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	
6	Ice cream	- Aerobic plate count	AOAC Official Methods of Analysis,
		cfu/g	21 st ed., 2019, method 989.10
		- Aerobic plate count	AOAC Official Methods of Analysis,
		cfu/g	21 st ed., 2019, method 2015.13
		- Salmonella spp.	AOAC Performance Tested Certificate
		Detected or not detected / 25 g	No. 120301

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Scope of Laboratory Accreditation

Laboratory Name : 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

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

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

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Scope of Laboratory Accreditation

Laboratory Name : 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

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test item /	Test Method /
Number	Product	Range of Testing	Technique Used
7	Soybean and	- Sucrose	In - house method : TE-BIO-09
(cont.)	soybean product	0.010 g/100 g to 6.00 g/100	based on Jounal Agric. Food Chem, Vol 39,
		- Stachyose	1991, p. 689-694
		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	In - house method : TE-ORG-11
		68.5 g/100 Crude Protein to	based on ISO 14244 : 2014
		91.9 g/100 Crude Protein	
		- Soluble protein	ISO 12099 : 2017
		70.0 g/100 Crude Protein to	
		91.9 g/100 Crude Protein	

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Scope of Laboratory Accreditation

Laboratory Name : 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

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Laborator	Laboratory Status . Let remainent Let Site Let remporary Let Mobile				
Item	Test Material /	Test item /	Test Method /		
Number	Product	Range of Testing	Technique Used		
8	Feed material of	- Urea	In - house method : TE-BIO-08		
	animal origin	0.01 g/100 g to 2.00 g/100 g	based on AOAC Official Methods of		
			Analysis, 21 st ed., 2019, method 967.07		
		- Urea	In - house method : TE-MCS-01		
		Detected or not detected	based on The American Association of Feed		
			Microscopists, 2 nd ed., 1978, p. 107-108		
		- Detection of beef DNA	DNeasy mericon Food Kit, and		
		contaminate	SureFood® ANIMAL ID Beef IAAC,		
		Detected or not detected / 25 g	Art. No. S6113		
		- Detection of feather contaminate	In - house method : TE-MCS-02		
		Detected or not detected	based on AOAC Official Methods of		
			Analysis, 21 st ed., 2019, method 970.09		

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Laboratory Name : 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

Laboratory Status
: ☑ Permanent
☐ Site
☐ Temporary
☐ Mobile

Item
Test Material /
Test item /
Test Method /

Test Material /	Test item /	Test Method /
Product	Range of Testing	Technique Used
Feed material of	- Butylated hydroxytoluene	In - house Method : TE-BIO-13
animal origin	7.55 mg/kg to 350 mg/kg	based on AOAC Official Methods of
		Analysis, 21 st ed., 2019, method 996.13
	- Butylated hydroxyanisol	
	3.40 mg/kg to 350 mg/kg	
	- Ethoxyquin	
	2.25 mg/kg to 100 mg/kg	
Feed material	- Calcium	In - house method : TE-INO-08
	0.050 g/100 g to 18.0 g/100 g	based on EN 15510 : 2017
	- Potassium	
	0.050 g/100 g to 2.30 g/100 g	
	Product Feed material of animal origin	Product Range of Testing 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 Feed material - Calcium 0.050 g/100 g to 18.0 g/100 g - Potassium

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Amphoe Bangsaothong, Changwat Samuthprakarn 10540

Accreditation Number : Testing - 0021

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test item /	Test Method /
Number	Product	Range of Testing	Technique Used
9	Feed material	- Sodium	In - house method : TE-INO-08
(cont.)		0.100 g/100 g to 3.00 g/100 g	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	
			150 710 0000
		- Moisture	ISO 712 : 2009
		9.80 g/100 g to 15.0 g/100 g	
		- Crude Protein	In - house method : TE-ORG-01
		1.60 g/100 g to 88.4 g/100 g	based on ISO 5983-2 : 2009
		3, 200 3, 60 33.1, 3, 200 3	
		- Crude Protein	In – house method : TE-ORG-05
		15.6 g/100 g to 16.7 g/100 g	based on ISO 16634-1 : 2008

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Amphoe Bangsaothong, Changwat Samuthprakarn 10540

Accreditation Number : Testing - 0021

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

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

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Scope of Laboratory Accreditation

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Address : 57 Moo 1, Bangna-Trad Road, K.M. 21, Tambon Sisa Chorakhe Yai,

Amphoe Bangsaothong, Changwat Samuthprakarn 10540

Accreditation Number : Testing - 0021

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

Item	Test Material /	Test item /	Test Method /
Number	Product	Range of Testing	Technique Used
9	Feed material	- Fat	ISO 12099 : 2017
(cont.)		2.20 g/100 g to 22.8 g/100 g	
		- Crude fiber	
		1.50 g/100 g to 30.7 g/100 g	
		- Tryptophan	In - house method : TE-BIO-11
		0.060 g/100 g to 0.800 g/100 g	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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Scope of Laboratory Accreditation

Laboratory Name : 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

Laboratory Status : $oxed{f \square}$ Permanent $oxed{f \square}$ Site $oxed{f \square}$ Temporary $oxed{f \square}$ Mobile

Item	Test Material /	Test item /	Test Method /
Number	Product	Range of Testing	Technique Used
10	Maize	- Moisture	ISO 6540 : 2017
		8.3 g/100 g to 32.0 g/100 g	
		- Moisture	ISO 12099 : 2017
		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	In - house method : TE-TOX-01
		2.00 µg/kg to 45.0 µg/kg	based on Anal Bioanal Chem, Vol. 402,
			2012, p. 2675–2686

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Laboratory status . El Fermanent El Site El Temporary El Mobile			
Item	Test Material /	Test item /	Test Method /
Number	Product	Range of Testing	Technique Used
11	Sponge swab	- Salmonella spp.	In - house method : TE-MIC-12
		Detected or not detected / piece	based on AOAC Performance Tested
			Certificate No. 120301
		- Salmonella spp.	In - house method : TE-MIC-17
		Detected or not detected / piece	based on Salmonella - A Diversified
			Superbug, Chapter 27, 2012, p. 541-562
12	Pet food	- Protein	In - house method : TE-ORG-05
		15.6 g/100 g to 16.7 g/100 g	based on ISO 16634-1 : 2008
13	Milk product	- Lactose	In - house method : TE-BIO -16
	for animals	0.500 g/100 g to 80.0 g/100 g	based on Jounal Agric. Food Chem.
	- Whey powder		Vol. 47, 1999, p.157–163
	- Lactose		

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Accreditation Number : Testing - 0021

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

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

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Amphoe Bangsaothong, Changwat Samuthprakarn 10540

Accreditation Number : Testing - 0021

Laboratory Status : ☑ Permanent ☐ Site ☐ Temporary ☐ Mobile

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

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