

Name of Laboratory : KRUNGTHAI FOOD PUBLIC COMPANY LIMITED  
Address : 135/2 Moo 4 Highway No. 331 Tambon Klengkiew,  
Amphoe Banbueng, Changwat Chonburi 20220  
Accreditation Number : Testing – 0062  
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Initial Issue Date : 21<sup>st</sup> September 2010  
Issue Date : 14<sup>th</sup> February 2022  
Expired date : 13<sup>th</sup> February 2026  
Standard : ISO/IEC 17025:2017  
Reference No. : 0303/2265

### Scope of Testing 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	Complete feeds	- Sodium 1 802 mg/kg to 7 126 mg/kg - Calcium 5 487 mg/kg to 53 992 mg/kg - Phosphorus 2 173 mg/kg to 11 042 mg/kg - Potassium 3 328 mg/kg to 9 994 mg/kg - Magnesium 1 518 mg/kg to 3 438 mg/kg - Manganese 5 mg/kg to 500 mg/kg - Zinc 10 mg/kg to 500 mg/kg - Copper 5 mg/kg to 30 mg/kg - Nickel 0.31 mg/kg to 5 mg/kg	In - house method : WI-QC-12 based on ISO 6869 : 2000

Initial Issue Date 21<sup>st</sup> September 2010

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Complete feeds	- Cobalt 0.07 mg/kg to 5 mg/kg - Iron 137 mg/kg to 500 mg/kg - Selenium 0.04 mg/kg to 5 mg/kg - Arsenic 31 µg/kg to 5 005 µg/kg - Cadmium 29 µg/kg to 5 003 µg/kg - Mercury 25 µg/kg to 500 µg/kg - Chromium 71 µg/kg to 5 045 µg/kg - Lead 53 µg/kg to 5 027 µg/kg	In - house method : WI-QC-12 based on ISO 6869 : 2000 In - house method : WI-QC-12 based on AOAC Official Methods of Analysis, 21 <sup>st</sup> ed., 2019, method 999.10

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1 (cont.)	Complete feeds	- Protein 12.00 g/100 g to 45.00 g/100 g  - Moisture 6.00 g/100 g to 14.00 g/100 g  - Crude fat 2.00 g/100 g to 9.00 g/100 g  - Total fat 3.00 g/100 g to 9.00 g/100 g  - Crude fiber 2.00 g/100 g to 9.00 g/100 g  - Ash 1.00 g/100 g to 24.00 g/100 g	AOAC Official Methods of Analysis, 21 <sup>st</sup> ed., 2019, method 990.03  AOAC Official Methods of Analysis, 21 <sup>st</sup> ed., 2019, method 930.15  In - house method : WI-QC-04 based on ISO 11085 : 2015  In - house method : WI-QC-03 based on ISO 6865 : 2000  AOAC Official Methods of Analysis, 21 <sup>st</sup> ed., 2019, method 942.05

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1 (cont.)	Complete feeds	- Lasalocid 5 µg/kg to 3 750 µg/kg 45 mg/kg to 135 mg/kg  - Salinomycin 5 µg/kg to 2 100 µg/kg 35 mg/kg to 105 mg/kg  - Narasin 5 µg/kg to 1 500 µg/kg 25 mg/kg to 75 mg/kg  - Nicarbazin 5 µg/kg to 1 500 µg/kg 25 mg/kg to 75 mg/kg	In - house method : WI-QC-56 based on Analytica Acta 700 (2011) 26-33

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1 (cont.)	Complete feeds - Poultry feed	Multitoxin - Aflatoxin B1 3 µg/kg to 105 µg/kg - Aflatoxin B2 3 µg/kg to 26 µg/kg - Aflatoxin G1 3 µg/kg to 105 µg/kg - Aflatoxin G2 3 µg/kg to 26 µg/kg - Fumonisin B1 200 µg/kg to 2 700 µg/kg - Fumonisin B2 200 µg/kg to 2 700 µg/kg - T-2 Toxin 20 µg/kg to 2 000 µg/kg - Ochratoxin A 5 µg/kg to 105 µg/kg	In – house method: WI-QC-64 based on Rapid Communications in Mass Spectrometry, 2006, vol.20, p.2649 - 2659

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
1 (cont.)	Complete feeds - Poultry feed	Multitoxin - Deoxynivalenol 30 µg/kg to 4 200 µg/kg - Zearalenone 20 µg/kg to 4 200 µg/kg	In – house method: WI-QC-64 based on Rapid Communications in Mass Spectrometry, 2006, vol.20, p.2649 - 2659
2	Feed materials	- Sodium 25 mg/kg to 2 775 mg/kg - Calcium 271 mg/kg to 32 446 mg/kg - Phosphorus 1 736 mg/kg to 25 316 mg/kg - Potassium 1 424 mg/kg to 22 472 mg/kg - Magnesium 253 mg/kg to 11 221 mg/kg	In - house method : WI-QC-12 based on ISO 6869 : 2000

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Item Number	Test Material / Product	Test Item / Range of Testing	Test Method / Technique Used
2 (cont.)	Feed materials	- Manganese 6 mg/kg to 500 mg/kg - Zinc 19 mg/kg to 500 mg/kg - Copper 2 mg/kg to 30 mg/kg - Nickel 0.34 mg/kg to 5 mg/kg - Iron 18 mg/kg to 500 mg/kg - Cobalt 0.02 mg/kg to 5 mg/kg - Selenium 0.04 mg/kg to 5 mg/kg	In - house method : WI-QC-12 based on ISO 6869 : 2000

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2 (cont.)	Feed materials	- Arsenic 28 µg/kg to 5 002 µg/kg - Cadmium 25 µg/kg to 5 000 µg/kg - Mercury 25 µg/kg to 250 µg/kg - Chromium 59 µg/kg to 5 033 µg/kg - Lead 29 µg/kg to 5 004 µg/kg - Protein 2.00 g/100 g to 82.00 g/100 g	In - house method : WI-QC-12 based on AOAC Official Methods of Analysis, 21 <sup>st</sup> ed., 2019, method 999.10  AOAC Official Methods of Analysis, 21 <sup>st</sup> ed., 2019, method 990.03

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2 (cont.)	Feed materials	- Crude fat 0.50 g/100 g to 9.00 g/100 g  - Total fat 6.00 g/100 g to 19.00 g/100 g  - Crude fiber 2.00 g/100 g to 37.00 g/100 g  - Ash 1.00 g/100 g to 24.00 g/100 g  - Total aflatoxin 1 µg/kg to 52 µg/kg	In - house method : WI-QC-04 based on ISO 11085 : 2015     In - house method : WI-QC-03 based on ISO 6865 : 2000   AOAC Official Methods of Analysis, 21 <sup>st</sup> ed., 2019, method 942.05   In - house method : WI-QC-14 based on AOAC Official Methods of Analysis, 21 <sup>st</sup> ed., 2019, method 991.31

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2 (cont.)	Feed materials - Corn - Soybean seeds - Soybean meals	Multitoxin - Aflatoxin B1 3 µg/kg to 105 µg/kg - Aflatoxin B2 3 µg/kg to 26 µg/kg - Aflatoxin G1 3 µg/kg to 105 µg/kg - Aflatoxin G2 3 µg/kg to 26 µg/kg - Fumonisin B1 20 µg/kg to 2 700 µg/kg - Fumonisin B2 20 µg/kg to 2 700 µg/kg - T-2 Toxin 20 µg/kg to 2 000 µg/kg - Ochratoxin A 5 µg/kg to 105 µg/kg	In – house method: WI-QC-64 based on Rapid Communications in Mass Spectrometry, 2006, vol.20, p.2649 - 2659

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2 (cont.)	Feed materials - Corn - Soybean seeds - Soybean meals	Multitoxin - Deoxynivalenol 30 µg/kg to 4 200 µg/kg - Zearalenone 20 µg/kg to 4 200 µg/kg  - Protein 6.8 g/100 g to 50.3 g/100 g  - Fat 0.5 g/100 g to 19 g/100 g  - Crude fiber 2.5 g/100 g to 8.9 g/100 g  - Ash 1.0 g/100 g to 7.2 g/100 g	In – house method: WI-QC-64 based on Rapid Communications in Mass Spectrometry, 2006, vol.20, p.2649 - 2659  ISO 12099 : 2017

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3	Water	- Aluminium 5 µg/L to 100 µg/L - Chromium 5 µg/L to 100 µg/L - Manganese 1 µg/L to 100 µg/L - Copper 2 µg/L to 100 µg/L - Lead 1 µg/L to 100 µg/L - Zinc 2 µg/L to 100 µg/L - Arsenic 2 µg/L to 100 µg/L - Selenium 2 µg/L to 100 µg/L	In - house method : WI-QC-13 based on Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, part 3125 B

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3 (cont.)	Water	- Cadmium 2 µg/L to 100 µg/L - Barium 2 µg/L to 100 µg/L - Mercury 0.7 µg/L to 10 µg/L - Iron 2 µg/L to 100 µg/L - Silver 2 µg/L to 100 µg/L - Nickel 2 µg/L to 100 µg/L - pH 4.0 to 10.0	In - house method : WI-QC-13 based on Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, part 3125 B  Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, part 4500 - H <sup>+</sup> B

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3 (cont.)	Water	- Total dissolved solids at 180 °C 10 mg/L to 1 800 mg/L  - Total suspended solids at 103 °C to 105 °C 10 mg/L to 1 000 mg/L  - Total hardness (Calculated as CaCO <sub>3</sub> ) 5 mg/L to 1 000 mg/L	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, part 2540 C  Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, part 2540 D  Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, part 2340 C

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4	Wastewater	- Total suspended solids at 103 °C to 105 °C 300 mg/L to 1 000 mg/L	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, part 2540 D

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