



Accreditation No.1031/47

Analysis Report

Work Order : **BK2305729**
Client : S. Sermrang Agricultural (2005) Ltd., Part.
112 Moo 7, Thamanaow Rd., Tambon Thamanaow, Amphoe Chai Badan,
Lopburi, Thailand, 15130
Project Location : S. Sermrang Agricultural (2005) Ltd., Part.

Date Received : Apr 27, 2023
Date Reported : May 17, 2023
Report Number : BK2305729-AA

Sample Number : BK2305729-001
Sampled Date : Apr 25, 2023
Sample Description : Soybean
Date of Analysis : May 03, 2023
Condition of Sample : 1x plastic bag

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Method	Testing Lab
Aflatoxin Testing						
Aflatoxin B1	ug/kg	0.80	2.00	Not Detected	FO0102	Bangkok
Aflatoxin B2	ug/kg	0.24	0.60	Not Detected	FO0102	Bangkok
Aflatoxin G1	ug/kg	0.80	2.00	Not Detected	FO0102	Bangkok
Aflatoxin G2	ug/kg	0.24	0.60	Not Detected	FO0102	Bangkok
Total Aflatoxins	ug/kg	0.80	2.00	Not Detected	FO0102	Bangkok
Chemical Parameters						
Protein (N x 6.25)	g/100g	0.10	1.25	37.8	FO0196	Bangkok
GMO Qualitative						
CaMV 35s Promoter	%	0.10	0.10	Not Detected	MC3203	Bangkok
NOS terminator	%	0.10	0.10	Not Detected	MC3203	Bangkok
Plant specific gene	-	-	-	Detected	MC3203	Bangkok
Metals and Major Cations						
Arsenic	mg/kg	0.005	0.01	0.02	ME0011	Bangkok
Cadmium	mg/kg	0.005	0.01	0.03	ME0011	Bangkok
Copper	mg/kg	0.05	0.10	12.2	ME0011	Bangkok
Lead	mg/kg	0.005	0.01	0.03	ME0011	Bangkok
Mercury	mg/kg	0.001	0.005	<0.005	ME0013	Bangkok
Tin	mg/kg	0.06	0.20	Not Detected	ME0011	Bangkok
Zinc	mg/kg	0.06	0.20	42.3	ME0011	Bangkok
Microbiological Parameters						
Bacillus cereus	CFU/g	-	-	30	MC3014	Bangkok
Clostridium perfringens	CFU/g	-	-	<10	MC3024	Bangkok
Salmonella spp.	in 25g	-	-	Not Detected	MC3139	Bangkok

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Analytical Results

Analyte	Unit	LOD	LOQ	Result	Method	Testing Lab
Microbiological Parameters						
<i>Staphylococcus aureus</i>	in 0.1g	-	-	Not Detected	MC3127	Bangkok
Pesticides						
Benomyl *	mg/kg	0.005	0.0100	Not Detected	FO0297	Bangkok
Dithiocarbamate as CS ₂ *	mg/kg	0.05	0.10	Not Detected	FO0287	Bangkok
Paraquat *	mg/kg	0.002	0.005	Not Detected	FO0286	Bangkok
Carbendazim *	mg/kg	0.005	0.0100	Not Detected	FO0297	Bangkok
Paraquat dichloride *	mg/kg	0.003	0.007	Not Detected	FO0286	Bangkok
Paraquat [bis (methyl sulfate)] (paraquat methosulfate) *	mg/kg	0.004	0.010	Not Detected	FO0286	Bangkok
Thiophanate-methyl *	mg/kg	0.005	0.0100	Not Detected	FO0297	Bangkok
Captan *	mg/kg	0.005	0.010	Not Detected	FO0298	Bangkok
sum Carbendazim *	mg/kg	0.005	0.0100	Not Detected	FO0297	Bangkok
Chlorothalonil *	mg/kg	0.005	0.010	Not Detected	FO0298	Bangkok
Pesticides - Carbamate						
3-Hydroxy Carbofuran *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Aldicarb *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Aldicarb sulfone *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Aldicarb sulfoxide *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Carbaryl *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Carbofuran *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Methiocarb *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Methiocarb sulfone *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Methomyl *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Oxamyl *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok

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Sampled Date : Apr 25, 2023
Sample Description : Soybean
Date of Analysis : May 03, 2023
Condition of Sample : 1x plastic bag

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Method	Testing Lab
Pesticides - Carbamate						
Methiocarb sulfoxide *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Propoxur *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Carbosulfan *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Thiodicarb *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
sum of Carbofuran and 3-Hydroxy Carbofuran *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Sum of Methiocarb, Methiocarb-sulfone & Methiocarb-sulfoxide (expressed as methiocarb) *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Aldicarb (sum of aldicarb, its sulfoxide and its sulfone) *	mg/kg	0.005	0.010	Not Detected	FO0097	Bangkok
Pesticides - Organochlorine						
alpha-BHC *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
beta-BHC *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
gamma-BHC (Lindane) *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
delta-BHC *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Heptachlor *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Aldrin *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Dicofol *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Heptachlor-Epoxyde *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
trans-Chlordane *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Dieldrin *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
o,p'-DDE *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Endosulfan I *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
p,p'-DDE *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
o,p'-DDD *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok

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Lopburi, Thailand, 15130
Project Location : S. Sermurang Agricultural (2005) Ltd., Part.

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Sample Number : BK2305729-001
Sampled Date : Apr 25, 2023
Sample Description : Soybean
Date of Analysis : May 03, 2023
Condition of Sample : 1x plastic bag

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Method	Testing Lab
Pesticides - Organochlorine						
Endrin *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Endosulfan II *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
p,p'-DDD *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
o,p'-DDT *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Endrin aldehyde *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Endosulfan sulfate *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
p,p'-DDT *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Methoxychlor *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Aldrin and Dieldrin *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Chlordane (cis- and trans-chlordane) *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
DDT (p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-DDD) *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Endrin (endrin and delta-keto-endrin) *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Heptachlor (sum of heptachlor and heptachlor epoxide) *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Hexachlorobenzene *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Mirex *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
BHC (alpha-BHC, beta-BHC, gamma-BHC and delta-BHC) *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Endosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate) *	mg/kg	0.005	0.010	Not Detected	FO0104	Bangkok
Pesticides - Organophosphate						
Azinphos-ethyl *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Chlorpyrifos *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Chlorpyrifos methyl *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok

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Sample Description : Soybean
Date of Analysis : May 03, 2023
Condition of Sample : 1x plastic bag

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Method	Testing Lab
Pesticides - Organophosphate						
Diazinon *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
EPN *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Ethion *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Fenitrothion *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Malathion *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Methidathion *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Parathion Ethyl *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Parathion Methyl *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Phosalone *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Pirimiphos-ethyl *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Pirimiphos-methyl *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Profenofos *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Prothiofos *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Triazophos *	mg/kg	0.005	0.010	Not Detected	FO0119	Bangkok
Acephate *	mg/kg	0.005	0.010	Not Detected	FO0146	Bangkok
Dichlorvos (DDVP) *	mg/kg	0.005	0.010	Not Detected	FO0146	Bangkok
Dicrotophos *	mg/kg	0.005	0.010	Not Detected	FO0146	Bangkok
Dimethoate *	mg/kg	0.005	0.010	Not Detected	FO0146	Bangkok
Methamidophos *	mg/kg	0.005	0.010	Not Detected	FO0146	Bangkok
Monocrotophos *	mg/kg	0.005	0.010	Not Detected	FO0146	Bangkok
Omethoate *	mg/kg	0.005	0.010	Not Detected	FO0146	Bangkok
Mevinphos *	mg/kg	0.005	0.010	Not Detected	FO0146	Bangkok
Pesticides - Pyrethroid						
Bifenthrin *	mg/kg	0.005	0.010	Not Detected	FO0193	Bangkok

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Sample Description : Soybean
Date of Analysis : May 03, 2023
Condition of Sample : 1x plastic bag

Analytical Results

Analyte	Unit	LOD	LOQ	Result	Method	Testing Lab
Pesticides - Pyrethroid						
Cyfluthrin *	mg/kg	0.005	0.010	Not Detected	FO0193	Bangkok
Cypermethrin *	mg/kg	0.005	0.010	Not Detected	FO0193	Bangkok
Deltamethrin *	mg/kg	0.005	0.010	Not Detected	FO0193	Bangkok
Fenvalerate *	mg/kg	0.005	0.010	Not Detected	FO0193	Bangkok
Permethrin *	mg/kg	0.005	0.010	Not Detected	FO0193	Bangkok
Lambda-cyhalothrin *	mg/kg	0.005	0.010	Not Detected	FO0193	Bangkok

Comment : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.
Sampling is not included in scope of accreditation ISO/IEC 17025
GMO qualitative: The plant-specific gene was tested by lectin gene.

Key:

- o LOD : Limit of Detection
- o "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- o Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC17025

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Condition of Sample : 1x plastic bag

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
FO0097	Bangkok	In-house method STM No.03-186 based on EN 15662:2018
FO0102	Bangkok	In-house method STM No.03-038 based on AOAC (2019) 991.31
FO0104	Bangkok	In-house method STM No.03-186 based on EN 15662:2018
FO0119	Bangkok	In-house method STM No.03-186 based on EN 15662:2018
FO0146	Bangkok	In-house method STM No.03-186 based on EN 15662:2018
FO0193	Bangkok	In-house method STM No.03-186 based on EN 15662:2018
FO0196	Bangkok	In-house method STM No.03-017 based on AOAC (2019) 981.10
FO0286	Bangkok	Based on EU Reference Laboratory for pesticides requiring Single Residue Methods (EURL-SRM) Version 9.2, Oct 2016
FO0287	Bangkok	Based on EURL-SRM-14 (V2,Dec 2009)
FO0297	Bangkok	In-house method STM No.03-186 based on EN 15662:2018
FO0298	Bangkok	In-house method STM No.03-186 based on EN 15662:2018
MC3014	Bangkok	FDA BAM online, 2020 (Chapter 14)
MC3024	Bangkok	FDA BAM online, 2001 (Chapter 16)
MC3127	Bangkok	FDA BAM online, 2016 (Chapter 12)
MC3139	Bangkok	ISO 6579-1:2017/Amd.1:2020
MC3203	Bangkok	Based on ISO 21570:2005, Amd. 1:2013
ME0011	Bangkok	In-house method STM No. 05-040 based on AOAC (2019) 2011.19
ME0013	Bangkok	In-house method STM No. 05-045 based on United States Environmental Protection Agency (EPA), 2007, Method 7473

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