



Accreditation No. 1031/47

Analysis / Test Report

Client : Ubon Sunflower Company Limited
299 M.9, T.Nadee, A.Nayear, Ubon Ratchathani Thailand 34160
P/O : SPO22-000102
Project Name :
Project Location :

Lot ID: 223635

Date Received : Jan 10, 2022

Date Reported : Jan 22, 2022

Report Number : 2212709-1

Page 1 of 7

Sample Number 223635-2
Sample Description Organic cassava flour FOR221K06 UBS Lot 22-005
Date Analysis Commenced Jan 11, 2022
Condition of Sample Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Aflatoxin Testing						
Aflatoxin B1	ug/kg	0.80	2.0	Not Detected	In-house method STM No.03-038 based on AOAC (2019), 991.31	Bangkok
Aflatoxin B2	ug/kg	0.24	0.60	Not Detected	In-house method STM No.03-038 based on AOAC (2019), 991.31	Bangkok
Aflatoxin G1	ug/kg	0.80	2.0	Not Detected	In-house method STM No.03-038 based on AOAC (2019), 991.31	Bangkok
Aflatoxin G2	ug/kg	0.24	0.60	Not Detected	In-house method STM No.03-038 based on AOAC (2019), 991.31	Bangkok
Total Aflatoxins	ug/kg	0.80	2.0	Not Detected	In-house method STM No.03-038 based on AOAC (2019), 991.31	Bangkok
Allergen Testing						
Allergen Gluten	mg/kg	3.0	5.0	Not Detected	ELISA, R-Biopharm Ridascreen Gliadin Art No. R7001	Bangkok
Food Testing						
Ash	g/100g	-	-	0.27	AOAC (2019), 923.03	Bangkok
Fiber (Crude) *	g/100g	-	-	2.16	Based on AOAC (2019), 978.10	Bangkok
Fineness 100 Mesh *	%	-	-	68.70	AACC Method 66-20	Bangkok
Moisture	g/100g	-	-	12.4	AOAC (2019), 925.10	Bangkok
pH at 25 degree C	-	-	-	6.44	In-house method STM No.03-142 based on AOAC (2019), 943.02	Bangkok
Starch *	%	0.3	1.0	88.4	Based on AOAC (2019), 920.44	Bangkok
GMO Qualitative						
35S CaMV Promoter	%	0.1	-	Not Detected	In-house method STM No.01-076 in connection with: - ISO 21570:2005/Amd. 1/2013 - EUR 24596 EN:2010	Bangkok
NOS Terminator	%	0.1	-	Not Detected	In-house method STM No.01-076 in connection with: - ISO 21570:2005/Amd. 1/2013 - EUR 24596 EN:2010	Bangkok
Metals Testing						
Arsenic	mg/kg	0.005	0.10	Not Detected	Based on AOAC (2019), 2011.19	Bangkok

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sumalee Chanta
Assistant Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Accreditation No. 1031/47

Analysis / Test Report

Client : Ubon Sunflower Company Limited
299 M.9, T.Nadee, A.Nayear, Ubon Ratchathani Thailand 34160
P/O : SPO22-000102
Project Name :
Project Location :

Lot ID: 223635

Date Received : Jan 10, 2022

Date Reported : Jan 22, 2022

Report Number : 2212709-1

Page 2 of 7

Sample Number 223635-2
Sample Description Organic cassava flour FOR221K06 UBS Lot 22-005
Date Analysis Commenced Jan 11, 2022
Condition of Sample Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Cadmium	mg/kg	0.0003	0.03	<0.03	Based on AOAC (2019), 2011.19	Bangkok
Lead	mg/kg	0.01	0.10	<0.10	Based on AOAC (2019), 2011.19	Bangkok
Mercury	mg/kg	0.001	0.005	Not Detected	Based on US EPA, Method 7473	Bangkok
Tin	mg/kg	0.001	1.00	<1.00	Based on AOAC (2019), 2011.19	Bangkok
Microbiological Testing						
<i>Bacillus cereus</i>	CFU/g	-	-	290	BAM (2020), Chapter 14	Bangkok
<i>Clostridium perfringens</i>	CFU/g	-	-	<10	BAM (2001), Chapter 16	Bangkok
Coliforms	MPN/g	-	-	<3.0	BAM (2020), Chapter 4	Bangkok
<i>Escherichia coli</i>	MPN/g	-	-	<3.0	BAM (2020), Chapter 4	Bangkok
<i>Salmonella spp.</i>	in 25 g	-	-	Not Detected	ISO 6579 (2017)/Amd.1 (2020)	Bangkok
<i>Staphylococcus aureus</i>	CFU/g	-	-	<10	BAM (2016), Chapter 12	Bangkok
Total Plate Count	CFU/g	-	-	6000	BAM (2001), Chapter 3	Bangkok
Yeast and Mold	CFU/g	-	-	13	BAM (2001), Chapter 18	Bangkok
Mycotoxins Testing						
Ochratoxin A	ug/kg	0.24	0.40	Not Detected	In-house method STM No. 03-040 based on AOAC (2019), 2000.03	Bangkok
Pesticides - Carbamate Group						
3-Hydroxy Carbofuran	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Aldicarb	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Aldicarb Sulfone	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Aldicarb Sulfoxide	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Carbaryl	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Carbofuran	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

S. Chanta

Sumalee Chanta
Assistant Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Accreditation No. 1031/47

Analysis / Test Report

Client : Ubon Sunflower Company Limited
299 M.9, T.Nadee, A.Nayear, Ubon Ratchathani Thailand 34160
P/O : SPO22-000102
Project Name :
Project Location :

Lot ID: 223635

Date Received : Jan 10, 2022

Date Reported : Jan 22, 2022

Report Number : 2212709-1

Page 3 of 7

Sample Number 223635-2
Sample Description Organic cassava flour FOR221K06 UBS Lot 22-005
Date Analysis Commenced Jan 11, 2022
Condition of Sample Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Pesticides - Carbamate Group						
Carbosulfan *	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Methiocarb	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Methiocarb Sulfone	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Methiocarb sulfoxide	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Methomyl	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Oxamyl	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Propoxur	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Thiodicarb	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Pesticides - Organochlorine Group						
Aldrin	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Aldrin and dieldrin	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
alpha-BHC	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
beta-BHC	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
BHC (alpha-BHC, beta-BHC, gamma-BHC and delta-BHC)	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Chlordane (cis- and trans-chlordane)	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
cis-Chlordane	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
DDT (p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-DDD)	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
delta-BHC	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Dicofol	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

S. Chanta

Sumalee Chanta
Assistant Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Accreditation No. 1031/47

Analysis / Test Report

Client : Ubon Sunflower Company Limited
299 M.9, T.Nadee, A.Nayear, Ubon Ratchathani Thailand 34160
P/O : SPO22-000102
Project Name :
Project Location :

Lot ID: 223635

Date Received : Jan 10, 2022

Date Reported : Jan 22, 2022

Report Number : 2212709-1

Page 4 of 7

Sample Number 223635-2
Sample Description Organic cassava flour FOR221K06 UBS Lot 22-005
Date Analysis Commenced Jan 11, 2022
Condition of Sample Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Pesticides - Organochlorine Group						
Dieldrin	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Endosulfan I	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Endosulfan II	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Endosulfan sulfate	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Endrin	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Endrin (endrin and delta-keto-endrin)	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Endrin aldehyde *	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
gamma-BHC (Lindane)	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Heptachlor	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Heptachlor (sum of heptachlor and heptachlor epoxide)	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Heptachlor-Epoxide	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Hexachlorobenzene	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Methoxychlor *	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Mirex	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
o,p'-DDD	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
o,p'-DDE	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
o,p'-DDT	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
p,p'-DDD	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
p,p'-DDE	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sumalee Chanta
Assistant Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Accreditation No. 1031/47

Analysis / Test Report

Client : Ubon Sunflower Company Limited
299 M.9, T.Nadee, A.Nayear, Ubon Ratchathani Thailand 34160
P/O : SPO22-000102
Project Name :
Project Location :

Lot ID: 223635

Date Received : Jan 10, 2022

Date Reported : Jan 22, 2022

Report Number : 2212709-1

Page 5 of 7

Sample Number 223635-2
Sample Description Organic cassava flour FOR221K06 UBS Lot 22-005
Date Analysis Commenced Jan 11, 2022
Condition of Sample Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Pesticides - Organochlorine Group						
p,p'-DDT	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
trans-Chlordane	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Pesticides - Organophosphate Group						
Acephate	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Azinphos-ethyl	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Chlorpyrifos	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Chlorpyrifos Methyl	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Diazinon *	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Dichlorvos (DDVP)	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Dicrotophos	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Dimethoate	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
EPN	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Ethion	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Fenitrothion	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Malathion	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Methamidophos	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Methidathion *	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Mevinphos Isomer1	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Mevinphos Isomer2	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

S. Chanta

Sumalee Chanta
Assistant Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Accreditation No. 1031/47

Analysis / Test Report

Client : Ubon Sunflower Company Limited
299 M.9, T.Nadee, A.Nayear, Ubon Ratchathani Thailand 34160
P/O : SPO22-000102
Project Name :
Project Location :

Lot ID: 223635

Date Received : Jan 10, 2022

Date Reported : Jan 22, 2022

Report Number : 2212709-1

Page 6 of 7

Sample Number 223635-2
Sample Description Organic cassava flour FOR221K06 UBS Lot 22-005
Date Analysis Commenced Jan 11, 2022
Condition of Sample Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Pesticides - Organophosphate Group						
Monocrotophos	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Omethoate	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Parathion ethyl	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Parathion methyl	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Phosalone	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Pirimiphos-ethyl	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Pirimiphos-methyl	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Profenofos	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Prothiofos	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Triazophos	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Pesticides - Pyrethroid Group						
Bifenthrin	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Cyfluthrin	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Cypermethrin	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Deltamethrin	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Fenvalerate	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Lambda-Cyhalothrin	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Permethrin	mg/kg	0.005	0.01	Not Detected	In-house method STM No. 03-186 based on EN 15662:2018	Bangkok
Pesticides Testing						

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sumalee Chanta
Assistant Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Accreditation No. 1031/47

Analysis / Test Report

Client : Ubon Sunflower Company Limited
299 M.9, T.Nadee, A.Nayear, Ubon Ratchathani Thailand 34160
P/O : SPO22-000102
Project Name :
Project Location :

Lot ID: 223635

Date Received : Jan 10, 2022

Date Reported : Jan 22, 2022

Report Number : 2212709-1

Page 7 of 7

Sample Number 223635-2
Sample Description Organic cassava flour FOR221K06 UBS Lot 22-005
Date Analysis Commenced Jan 11, 2022
Condition of Sample Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Pesticides Testing						
Paraquat *	mg/kg	0.002	0.005	Not Detected	In-house method based on EU Reference Laboratory for pesticides requiring Single Residue Methods (EURL-SRM) Version 9.2, Oct 2016	Bangkok
Paraquat [bis (methyl sulfate)] (paraquat methosulfate) *	mg/kg	0.004	0.01	Not Detected	In-house method based on EU Reference Laboratory for pesticides requiring Single Residue Methods (EURL-SRM) Version 9.2, Oct 2016	Bangkok
Paraquat dichloride *	mg/kg	0.003	0.007	Not Detected	In-house method based on EU Reference Laboratory for pesticides requiring Single Residue Methods (EURL-SRM) Version 9.2, Oct 2016	Bangkok

Note : GMO Qualitative : Detection of plant specific gene (tRNA-Leu gene) = Detected

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sumalee Chanta
Assistant Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Ubon Sunflower Company Limited
299 M.9, T.Nadee, A.Nayear, Ubon Ratchathani Thailand 34160
P/O : SPO22-000102
Project Name :
Project Location :

Lot ID: 223643

Date Received : Jan 10, 2022
Date Reported : Jan 20, 2022
Report Number : 2211267-1

Page 1 of 1

Sample Number 223643-2
Sample Description Organic cassava flour FOR221K06 UBS Lot 22-004
Date Analysis Commenced Jan 12, 2022
Condition of Sample Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Food Testing						
Conductivity	us/cm	-	-	38	Conductivity Method	Bangkok

Note :
1. Conductivity at 10% Solution
2. Conductivity has been subcontracted to outsource lab.

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Porntip Buanoi
Section Head

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Ubon Sunflower Company Limited
299 M.9, T.Nadee, A.Nayear, Ubon Ratchathani Thailand 34160
P/O : SPO22-000102
Project Name :
Project Location :

Lot ID: 223649

Date Received : Jan 10, 2022
Date Reported : Jan 21, 2022
Report Number : 2200242-1

Page 1 of 1

Sample Number 223649-1
Sample Description Organic cassava flour FOR221K06 UBS Lot 22-003
Date Analysis Commenced Jan 11, 2022
Condition of Sample Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Food Testing						
Fineness 60 Mesh	%	-	-	96.64	AACC Method 66-20	Bangkok

Note : The analysis has been subcontracted to outsource lab.

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Valida.

Valida Phoklin
Supervisor

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Ubon Sunflower Company Limited
299 M.9, T.Nadee, A.Nayear, Ubon Ratchathani Thailand 34160
P/O : SPO22-000461
Project Name :
Project Location :

Lot ID: 2213714

Date Received : Jan 28, 2022

Date Reported : Feb 11, 2022

Report Number : 2231683-1

Page 1 of 1

Sample Number 2213714-4
Sample Description Organic cassava flour FOR221K06 UBS Lot 22-020
Date Analysis Commenced Jan 31, 2022
Condition of Sample Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Food Testing						
Whiteness	%	-	-	71.9	JIS Z 8722	Bangkok

Note : Whiteness has been subcontracted to outsource lab.

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sumalee Chanta
Assistant Manager



Test Report 5145667

Date : 12-Jan-2022

Page 1 of 1

Client : Ubon Sunflower Company Limited (Head office)
299 Moo.9 T.Nadee A.Nayear, Ubonratchathani 34160 Thailand

The following sample(s) was/were submitted and identified by client as:

Sample Name : FOR221K06 UBS Lot 22-002

Sample Description : Oraganic cassava flour

The following sample(s) was/were identified by SGS as:

SGS Sample No. : 5360695

Sample Condition : Sample is contained in a plastic zip bag.

Qty.Submitted : 1 bag x 300 g

Date Received : 10-Jan-2022 Date Commenced : 11-Jan-2022

Test Items	Method	LOD	LOQ	Results	Units
Chlorate	In-house method by LC-MS-MS Technique	0.01	0.02	Not detected	mg/kg

Remark : 1. LOD = "Limit of Detection"

2. Less than = Lower than LOQ "Limit of Quantitation"

Signed for and on behalf of
SGS (Thailand) Limited

Napaporn Thongthang
Acting - Multi Lab Manager

***** End of Report *****

"Any holder of this document is advised that should client or third party information be supplied with respect to the goods or sample, SGS may, at its discretion, attached or indicate such information to the report but SGS makes no warranties or accepts no liable for the veracity or lack thereof of such Information."

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request.

Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Publication or advertisement of the result of this document is prohibited, unless prior written approval of the Company.

Unless otherwise stated the results shown in this test report refer only to the sample(s) received and such sample(s) are retained for 15 days only.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

4847380



Overseas Merchandise Inspection Co., Ltd. 海外貨物検査株式会社

No. 12 - 14 Yen Akas Soi 3 Chongnonsri, Yannawa, Bangkok 10120 Thailand

Tel No. : +66-2-286-4120-3 Fax No. : +66-2-287-2570-1 URL : <http://www.omicnet.com> Page 1 of 1

TEST REPORT

ORIGINAL

Report No. : CBL68-25610
Sample ID : 68-25610
Batch No. : JBL68/11772
Report Date : January 17, 2022

The following sample(s) was(were) submitted and identified by/on behalf of the customer as:

Customer : UBON SUNFLOWER COMPANY LIMITED.
299 MOO 9 , T. NADEE ,A. NAYEAR,
UBONRATCHATHANI 34160 THAILAND

Sample Description : FOR221K06 Lot UBS 22-011
Customer's Reference : Organic cassava flour
Received Date : January 10, 2022
Sample Condition : Sample is contained in Plastic bag, sealed.
Analysis Commenced Date : January 12, 2022
Analysis Completed Date : January 13, 2022

Test Item	Method	Result	Unit
Hydrocyanic Acid (HCN)	Linamarase (MHLW/JPN)	2.22	mg/kg

The sample(s) will be held for thirty days from the date of the report.

The reported results apply to the sample as received.

This report shall not be reproduced except in full, without written approval of the laboratory.

Overseas Merchandise Inspection Co., Ltd.
Bangkok Laboratory

(RUNGDAWAN JUNNUGOOL)
Organic/Inorganic Section Manager

No person or entity should rely upon this Certificate/Report or any information contained therein without having express knowledge of the terms and conditions of the OMIC General Conditions of Business printed overleaf subject to which this Certificate/Report is issued. Copies of such Conditions are available from OMIC free of charge upon request.

The Certificate/Report is issued pursuant to an inspection service carried out within the scope of the principal's instructions and with due care and skill in conformity with the General Conditions of Business adopted by OMIC as a member of TIC Council. This Certificate/Report is not intended to relieve the parties to any relevant sales contract from their contractual obligations.

NºA079799 BK