

Test Report 5832547

Date : 15-Mar-2024

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Client : Mitr Phol Sugar Corp.,Ltd.
109 Moo 10
Nongmakahmong,Danchang, Suphanburi 72180 Thailand

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

Sample Name : Final Molasses

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

SGS Sample No. : 6130495

Sample Condition : Sample is contained in a plastic gallon.

Qty.Submitted : 1 gallon (5L)

Date Received : 28-Feb-2024 Date Commenced: 5-Mar-2024

Test Items	Method	LOD	LOQ	Results	Units
Sulphur dioxide (SO ₂)	In-house Method SOP No. LBFD-97016 in connection with FAO Manual of Food Quality Control.1986,Vol.14/7 Page 62-64,AOAC (2019) 961.09 and AOAC (2019) 962.16	2.5	10	Not detected	mg/kg
* Heavy metals (as Pb)	Based on USP 40 (231),Method II	-	-	Not more than 3	mg/kg
Arsenic (As)	In-house method SOP No. LBCH-13532 based on AOAC (2019) 999.10 and 2011.14	0.01	0.03	0.62	mg/kg
Lead (Pb)	In-house method SOP No. LBCH-13532 based on AOAC (2019) 999.10 and 2011.14	0.02	0.03	0.17	mg/kg
Mercury (Hg)	In-house method SOP LBCH-08480 based on USEPA,February 2007,Method 7473, Mercury Analyzer	0.004	0.01	Not detected	mg/kg
Tin (Sn)	In-house method SOP No. LBCH-13532 based on AOAC (2019) 999.10 and 2011.14	0.01	0.35	Less than 0.35	mg/kg

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Test Items	Method	LOD	LOQ	Results	Units
Cadmium (Cd)	In-house method SOP No. LBCH-13532 based on AOAC (2019) 999.10 and 2011.14	0.01	0.03	Less than 0.03	mg/kg
Multi- mycotoxins (Aflatoxin)	In-house method SOP No.LBLC-18004 based on QuEChERS method of Thermo Fisher Scientific Manual, Application Note No.21121. , HPLC-MS-MS				
-Aflatoxin B1		0.25	0.50	Not detected	ug/kg
-Aflatoxin B2		0.25	0.50	Not detected	ug/kg
-Aflatoxin G1		0.25	0.50	Not detected	ug/kg
-Aflatoxin G2		0.25	0.50	Not detected	ug/kg
-Total Aflatoxin		-	-	Not detected	ug/kg
Aerobic Plate Count	FDA BAM Online, 2001 (Chapter 3)	-	-	7,800	CFU/g
Yeasts and Molds	FDA BAM Online, 2001 (Chapter 18)	-	-	Less than 10	CFU/g
Coliforms	FDA BAM Online,2020 (Chapter 4)	-	-	Not detected	Per 0.1g
<i>E.coli</i>	FDA BAM Online,2020 (Chapter 4)	-	-	Not detected	Per 0.1g
<i>Salmonella spp.</i>	ISO 6579-1 : 2017/Amd.1:2020	-	-	Not detected	Per 25g
<i>Staphylococcus aureus</i>	FDA BAM Online,2016 (Chapter 12)	-	-	Less than 10	CFU/g
<i>Bacillus cereus</i>	FDA BAM Online,2020 (Chapter 14)	-	-	Less than 10	CFU/g
<i>Clostridium perfringens</i>	FDA BAM Online, 2001 (Chapter 16)	-	-	Less than 10	CFU/g
<i>Listeria monocytogenes</i>	ISO 11290-1 : 2017	-	-	Not detected	Per 25g

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Test Items	Method	LOD	LOQ	Results	Units
* Pesticide Organophosphate	In house Method Based on Steinwandter,H.1985.Fresenius Z.Anal. Chem No.1155				
-chlorpyrifos		0.05	0.1	Not detected	mg/kg
-diazinon		0.05	0.1	Not detected	mg/kg
-disulfoton		0.05	0.1	Not detected	mg/kg
-Ethion		0.05	0.1	Not detected	mg/kg
-fenitrothion		0.05	0.1	Not detected	mg/kg
-malathion		0.05	0.1	Not detected	mg/kg
-mevinphos		0.05	0.1	Not detected	mg/kg
-parathion ethyl		0.05	0.1	Not detected	mg/kg
-parathion methyl		0.05	0.1	Not detected	mg/kg
-pirimiphos ethyl		0.05	0.1	Not detected	mg/kg
-pirimiphos methyl		0.05	0.1	Not detected	mg/kg
-phorate		0.05	0.1	Not detected	mg/kg
-azinphos ethyl		0.05	0.1	Not detected	mg/kg
-chlorpyrifos methyl		0.05	0.1	Not detected	mg/kg
-chlorfenvinphos		0.05	0.1	Not detected	mg/kg
-dimethoate		0.05	0.1	Not detected	mg/kg
-EPN		0.05	0.1	Not detected	mg/kg
-etrimphos		0.05	0.1	Not detected	mg/kg
-methamidophos		0.05	0.1	Not detected	mg/kg
-phosalone		0.05	0.1	Not detected	mg/kg
-profenofos		0.05	0.1	Not detected	mg/kg
-prothiophos		0.05	0.1	Not detected	mg/kg
-triazophos		0.05	0.1	Not detected	mg/kg
-acephate		0.05	0.1	Not detected	mg/kg
-azinphos methyl		0.05	0.1	Not detected	mg/kg
-dichlorvos		0.05	0.1	Not detected	mg/kg
-dicrotophos		0.05	0.1	Not detected	mg/kg
-monocrotophos		0.05	0.1	Not detected	mg/kg
-omethoate		0.05	0.1	Not detected	mg/kg
-phosphamidon		0.05	0.1	Not detected	mg/kg
* Pesticides Organochlorine	In house Method Based on Steinwandter,H.1985.Fresenius Z.Anal. Chem No.1155				
-alpha-BHC		0.05	0.1	Not detected	mg/kg

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Test Items	Method	LOD	LOQ	Results	Units
-beta-BHC		0.05	0.1	Not detected	mg/kg
-gamma-BHC (Lindane)		0.05	0.1	Not detected	mg/kg
-delta-BHC		0.05	0.1	Not detected	mg/kg
-Heptachlor		0.05	0.1	Not detected	mg/kg
-Aldrin		0.05	0.1	Not detected	mg/kg
-Heptachlor epoxide		0.05	0.1	Not detected	mg/kg
-gamma-Chlordane		0.05	0.1	Not detected	mg/kg
-Endosulfan I		0.05	0.1	Not detected	mg/kg
-alpha-chlordane		0.05	0.1	Not detected	mg/kg
-p,p'-DDE		0.05	0.1	Not detected	mg/kg
-Dieldrin		0.05	0.1	Not detected	mg/kg
-Endrin		0.05	0.1	Not detected	mg/kg
-Endosulfan II		0.05	0.1	Not detected	mg/kg
-p,p'-DDD (TDE)		0.05	0.1	Not detected	mg/kg
-Endrin aldehyde		0.05	0.1	Not detected	mg/kg
-Endosulfan sulfate		0.05	0.1	Not detected	mg/kg
-p,p'-DDT		0.05	0.1	Not detected	mg/kg
-Endrin Ketone		0.05	0.1	Not detected	mg/kg
-Methoxychlor		0.05	0.1	Not detected	mg/kg
-o,p'-DDT		0.05	0.1	Not detected	mg/kg
-dicofol		0.05	0.1	Not detected	mg/kg
* Pesticides Pyrethroid	In house Method Based on Steinwandter,H.1985.Fresenius Z.Anal. Chem No.1155				
-cyfluthrin		0.05	0.1	Not detected	mg/kg
-cypermethrin		0.05	0.1	Not detected	mg/kg
-deltamethrin		0.05	0.1	Not detected	mg/kg
-fenvalerate		0.05	0.1	Not detected	mg/kg
-permethrin		0.05	0.1	Not detected	mg/kg
-bifenthrin		0.05	0.1	Not detected	mg/kg
-cyhalothrin (lambda-)		0.05	0.1	Not detected	mg/kg
* Pesticides Residue Carbamate add other items	Modified on BSEN 15662:2018 , HPLC-MS-MS				
-Aldicarb		0.005	0.01	Not detected	mg/kg
-Aldicarb-sulfone		0.005	0.01	Not detected	mg/kg
-Aldicarb-sulfoxide		0.005	0.01	Not detected	mg/kg

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-Bendiocarb		0.005	0.01	Not detected	mg/kg
-Carbaryl		0.005	0.01	Not detected	mg/kg
-Carbendazim and benomyl express as carbendazim		0.005	0.01	Not detected	mg/kg
-Carbofuran		0.005	0.01	Not detected	mg/kg
-Carbofuran-3-hydroxy		0.005	0.01	Not detected	mg/kg
-Fenobucarb (Baycarb)		0.005	0.01	Not detected	mg/kg
-Fludioxonil		0.005	0.01	Not detected	mg/kg
-Isoprocarb		0.005	0.01	Not detected	mg/kg
-Methiocarb		0.005	0.01	Not detected	mg/kg
-Methiocarb sulfone		0.005	0.01	Not detected	mg/kg
-Methiocarb-sulfoxide		0.005	0.01	Not detected	mg/kg
-Methomyl		0.005	0.01	Not detected	mg/kg
-Metolcarb		0.005	0.01	Not detected	mg/kg
-Oxamyl		0.005	0.01	Not detected	mg/kg
-Oxamyl - oxime		0.005	0.01	Not detected	mg/kg
-Promecarb		0.005	0.01	Not detected	mg/kg
-Propoxur (Baygon)		0.005	0.01	Not detected	mg/kg

Remark : 1. LOD = "Limit of Detection"

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

The Laboratory have been accredited in accordance with ISO/IEC 17025.

Test(s) marked * on this test report is/are not included in the accreditation scope in accordance with ISO/IEC 17025.

Signed for and on behalf of
SGS (Thailand) Ltd.



Jirapan Vilaipol
Microbiological Lab Manager

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

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