



STANDARDS
MALAYSIA

Certificate of Accreditation

No: SAMM 363

Accredited since: 14 February 2007

This is to certify that

IOI ACIDCHEM SDN. BHD.
PRAI, PULAU PINANG
MALAYSIA



Scan this QR Code or visit
www.jsm.gov.my/cab-directories
for the current scope of accreditation

has been granted accreditation in respect of the scope of accreditation described in the schedule, subject to the terms and conditions governing the *Skim Akreditasi Makmal Malaysia* (SAMM), the Laboratory Accreditation Scheme of Malaysia.

Laboratories accredited under SAMM meet the requirements of MS ISO/IEC 17025. This Malaysian Standard is identical with ISO/IEC 17025 published by the International Organization for Standardization (ISO).

(DATUK FADILAH BAHARIN)
Director General
Department of Standards Malaysia

Date of issue: 17 January 2019



Schedule

Issue date: 17 January 2019
Valid until: 14 February 2022



MS ISO/IEC 17025

NO: SAMM 363

Page: 1 of 5

LABORATORY LOCATION:
(PERMANENT LABORATORY –
CHEMICAL TESTING)

IOI ACIDCHEM SDN. BHD.
2411, LORONG PERUSAHAAN SATU
PRAI INDUSTRIAL COMPLEX
13600 PRAI
PULAU PINANG, MALAYSIA



FIELDS OF TESTING: CHEMICAL & MICROBIOLOGY

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2005 (ISO/IEC 17025:2005).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Finished Products Only <ul style="list-style-type: none"> Fatty Acid and Related Product 	Acid value	LTM-QC-002 (FA) In-house method based on AOCS Te 1a-64, 5 th Edition
	Colour of clear liquids (Pt-co scale)	LTM-QC-029 (FA, FE) In-house method based on ASTM D 1209-93
	Colour (Lov. 5 1/4" or 1")	AOCS Cc 13b-45, 5 th Edition
	Colour after heating	AOCS Td 3a-64, 5 th Edition
	Preparation of methyl esters of fatty acids	LTM-QC-027 (FA) In-house method based on AOCS Ce 2-66, 5 th Edition
	Iodine value	LTM-QC-004 (FA) In-house method based on AOCS Tg 1a-64, 5 th Edition

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NO: SAMM 363

Page: 2 of 5

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Finished Products Only <ul style="list-style-type: none"> Fatty Acid and Related Product 	Fatty acids composition by GC (or chain distribution)	LTM-QC-027 (FA) In-house method based on AOCS Ce-1e-91, 5 th Edition
	Saponification value	AOCS TI 1a-64, 5 th Edition
	Titer	AOCS Tr 1a-64, 5 th Edition
	Cloud point	AOCS Cc 6-25, 5 th Edition
	Peroxide value	AOCS Cd 8-53, 5 th Edition
	Water	USP 38 (Method 921 - 1a)
	Free fatty acid %	AOCS Ca 5a-40, 5 th Edition
<ul style="list-style-type: none"> Glycerin / Glycerol (Bleached) 	Acidity or alkalinity	EP 2014 / BP 2011
	Refractive index	
	Aldehydes	
	Esters	
	Impurity A and related substances	
	Halogenated compounds	
	Sugars	
	Chlorides	
	Heavy metals	
	Water	
	Sulphated ash	
	Glycerine content / assay	
	Specific gravity	USP 38 (Method 841)
	Residue on ignition	USP 38 (Method 281)
Water (Karl Fischer)	USP 38 (Method 921 - 1a)	

SCOPE OF TESTING: CHEMICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
<ul style="list-style-type: none"> Glycerin / Glycerol (Bleached) 	Chlorides	USP 38 (Method 221)
	Sulphate	
	Heavy metals	USP 38 (Method 231)
	Limit on chlorinated compounds	USP 38
	Fatty acids and esters	
	Colour	
	Glycerin content / assay	
	Identification B: <ul style="list-style-type: none"> Limit of diethylene glycol Limit of ethylene glycol 	
	Identification C: <ul style="list-style-type: none"> Confirmation of glycerine by GC 	
Related compounds		
<ul style="list-style-type: none"> Fatty Esters and Related Products 	Refractive index	USP 38 (Method 831)
	Specific gravity	USP 38 (Method 841)
	Residue on ignition	USP 38 (Method 281)
	Isopropyl palmitate / Isopropyl myristate content	LTM-QC-016 (FE) In-house method based on USP 38 <621>
	Cloud point	AOCS Cc 6-25, 6 th Edition
	Colour of clear liquids (Pt-co scale)	LTM-QC-029 (FA, FE) In-house method based on ASTM D 1209-93
	Water	USP 38 (Method 921 - 1a)
	Iodine value	USP 38 (Method 401 - II)
	Acid value	USP 38 (Method 401 - I)
	Saponification value	USP 38 (Method 401)

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MS ISO/IEC 17025

NO: SAMM 363

Page: 4 of 5

Note:

AOCS - American Oil Chemists' Society (Fifth Edition)
EP 2014 - European Pharmacopeia 8th Edition 2014
USP 38 - United States Pharmacopeia 2015
ASTM - American Standard Test Method
BP 2011 - British Pharmacopeia 2011

Signatories:

- | | | |
|----|------------------------|-------------------------------------|
| 1. | Mak King Seng | IKM No.: MMIC M/2223/4745/05 |
| 2. | Chong Choy Yoke | IKM No.: LMIC L/1499/4781/05 |
| 3. | Tan Chee Cheng | IKM No.: MMIC M/1853/4211/01 |
| 4. | Lim See Ting | IKM No.: MMIC M/4206/7030/15 |

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MS ISO/IEC 17025

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Page: 5 of 5

LABORATORY LOCATION:
(PERMANENT LABORATORY –
MICROBIOLOGY TESTING)

IOI ACIDCHEM SDN. BHD.
3072, LORONG PERUSAHAAN SATU
PRAI INDUSTRIAL COMPLEX
13600 PRAI
PULAU PINANG, MALAYSIA

SCOPE OF TESTING: MICROBIOLOGY

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Finished Products Only <ul style="list-style-type: none"> Fatty Acid and Related Products Glycerin / Glycerol (Bleached) Fatty esters and related products 	Total aerobic microbial count	USP 38 (Method 61) Pour plate
	Total combined molds and yeasts count	
	<i>Staphylococcus aureus</i> (Detection)	USP 38 (Method 62)
	<i>Pseudomonas aeruginosa</i> (Detection)	
	<i>Salmonella</i> (Detection)	
	<i>Escherichia coli</i> (Detection)	
	Bile - tolerant Gram Negative bacteria (Detection)	
Finished Products Only <ul style="list-style-type: none"> Fatty Acid and Related Products Glycerin / Glycerol (Bleached) 	Aerobic plate Counts	AOAC Official Method 990.12 (3M Petrifilm)
	Yeast & Mould Counts	AOAC Official Method 2014.05 (3M Petrifilm)

Note:

USP 38 - United States Pharmacopeia 2015

Signatory:

1. **Sim Hooi Chean**

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