

CERTIFICATE OF ANALYSIS

(MANUFACTURED BY : OPTIMISTIC ORGANIC SDN. BHD.)

PRODUCT : DIOCTYL MALEATE

DATE OF PRODUCTION : 12.03.23

BATCH NO. : DOM 8796E

S. NO	DESCRIPTION	UNITS	SPECIFICATION	TEST RESULT	TEST METHOD
01.	APPEARANCE		CLEAR & FREE	CLEAR & FREE	VISUAL
02.	GC PURITY (ESTER CONTENT) DIOCTYL MALEATE & DIOCTYL FUMARATE	% BY WT.	98.5 Min	99.87	SAP/LAB/68
	DIOCTYL FUMARATE	% BY WT.	5 Max	0.99	
03.	COLOR (Pt-Co Scale)	APHA	50 Max	42	ASTM D 1209 (SAP/LAB/70)
04.	WATER CONTENT	% W/W	0.1 Max	0.071	ASTM E 1064 (SAP/LAB/66)
05.	ACID VALUE	mg KOH/gm	0.1 Max	0.100	ASTM D 1613 (SAP/LAB/63)
06.	DENSITY @ 20°C	g/cm ³	0.935 - 0.945	0.945	ASTM D 4052 (SAP/LAB/64)

Expiry date : Best before 12 months from the date of production.

for 
HEAD
QUALITY ASSURANCE

Form No : L/10/17-A-Oct'20

AN ISO 9001 / ISO 14001 / ISO 45001 CERTIFIED COMPANY

Lot 3351, Teluk Kalong Industrial Estate, 24007 Kemaman, Terengganu Darul Iman, Malaysia.

TEL : 09-863 3029 / 3031 / 2343 E-mail : oosb@oosb.com.my

CERTIFICATE OF ANALYSIS

(MANUFACTURED BY : OPTIMISTIC ORGANIC SDN. BHD.)

PRODUCT : DIOCTYL MALEATE

DATE OF PRODUCTION : 10.02.23

BATCH NO. : DOM 8997E

S. NO	DESCRIPTION	UNITS	SPECIFICATION	TEST RESULT	TEST METHOD
01.	APPEARANCE		CLEAR & FREE	CLEAR & FREE	VISUAL
02.	GC PURITY (ESTER CONTENT) DIOCTYL MALEATE & DIOCTYL FUMARATE	% BY WT.	98.5 Min	99.94	SAP/LAB/68
	DIOCTYL FUMARATE	% BY WT.	5 Max	1	
03.	COLOR (Pt-Co Scale)	APHA	50 Max	36	ASTM D 1209 (SAP/LAB/70)
04.	WATER CONTENT	% W/W	0.1 Max	0.052	ASTM E 1064 (SAP/LAB/66)
05.	ACID VALUE	mg KOH/gm	0.1 Max	0.080	ASTM D 1613 (SAP/LAB/63)
06.	DENSITY @ 20°C	g/cm ³	0.935 - 0.945	0.943	ASTM D 4052 (SAP/LAB/64)

Expiry date : Best before 12 months from the date of production.


HEAD
QUALITY ASSURANCE

Form No : L/10/17-A-Oct'20

AN ISO 9001 / ISO 14001 / ISO 45001 CERTIFIED COMPANY

Lot 3351, Teluk Kalong Industrial Estate, 24007 Kemaman, Terengganu Darul Iman, Malaysia.

TEL : 09-863 3029 / 3031 / 2343 E-mail : oosb@oosb.com.my

CERTIFICATE OF ANALYSIS

(MANUFACTURED BY : OPTIMISTIC ORGANIC SDN. BHD.)

PRODUCT : DIOCTYL MALEATE

DATE OF PRODUCTION : 29.01.23

BATCH NO. : DOM 7098E

S. NO	DESCRIPTION	UNITS	SPECIFICATION	TEST RESULT	TEST METHOD
01.	APPEARANCE		CLEAR & FREE	CLEAR & FREE	VISUAL
02.	GC PURITY (ESTER CONTENT) DIOCTYL MALEATE & DIOCTYL FUMARATE	% BY WT.	98.5 Min	99.94	SAP/LAB/68
	DIOCTYL FUMARATE	% BY WT.	5 Max	0.88	
03.	COLOR (Pt-Co Scale)	APHA	50 Max	31	ASTM D 1209 (SAP/LAB/70)
04.	WATER CONTENT	% W/W	0.1 Max	0.076	ASTM E 1064 (SAP/LAB/66)
05.	ACID VALUE	mg KOH/gm	0.1 Max	0.090	ASTM D 1613 (SAP/LAB/63)
06.	DENSITY @ 20°C	g/cm ³	0.935 - 0.945	0.943	ASTM D 4052 (SAP/LAB/64)

Expiry date : Best before 12 months from the date of production.


HEAD
QUALITY ASSURANCE

Form No : L/10/17-A-Oct'20

AN ISO 9001 / ISO 14001 / ISO 45001 CERTIFIED COMPANY

CERTIFICATE OF ANALYSIS

(MANUFACTURED BY : OPTIMISTIC ORGANIC SDN. BHD.)

PRODUCT : DIOCTYL MALEATE

DATE OF PRODUCTION : 28.01.23

BATCH NO. : DOM 7198E

S. NO	DESCRIPTION	UNITS	SPECIFICATION	TEST RESULT	TEST METHOD
01.	APPEARANCE		CLEAR & FREE	CLEAR & FREE	VISUAL
02.	GC PURITY (ESTER CONTENT) DIOCTYL MALEATE & DIOCTYL FUMARATE	% BY WT.	98.5 Min	99.94	SAP/LAB/68
	DIOCTYL FUMARATE	% BY WT.	5 Max	0.87	
03.	COLOR (Pt-Co Scale)	APHA	50 Max	36	ASTM D 1209 (SAP/LAB/70)
04.	WATER CONTENT	% W/W	0.1 Max	0.072	ASTM E 1064 (SAP/LAB/66)
05.	ACID VALUE	mg KOH/gm	0.1 Max	0.090	ASTM D 1613 (SAP/LAB/63)
06.	DENSITY @ 20°C	g/cm ³	0.935 - 0.945	0.943	ASTM D 4052 (SAP/LAB/64)

Expiry date : Best before 12 months from the date of production.


HEAD
QUALITY ASSURANCE

Form No : L/10/17-A-Oct'20

AN ISO 9001 / ISO 14001 / ISO 45001 CERTIFIED COMPANY

Lot 3351, Teluk Kalong Industrial Estate, 24007 Kemaman, Terengganu Darul Iman, Malaysia.

TEL : 09-863 3029 / 3031 / 2343 E-mail : oosb@oosb.com.my

CERTIFICATE OF ANALYSIS

(MANUFACTURED BY : OPTIMISTIC ORGANIC SDN. BHD.)

PRODUCT : DIOCTYL MALEATE

DATE OF PRODUCTION : 08.01.23

BATCH NO. : DOM 9198E

S. NO	DESCRIPTION	UNITS	SPECIFICATION	TEST RESULT	TEST METHOD
01.	APPEARANCE		CLEAR & FREE	CLEAR & FREE	VISUAL
02.	GC PURITY (ESTER CONTENT) DIOCTYL MALEATE & DIOCTYL FUMARATE	% BY WT.	98.5 Min	99.82	SAP/LAB/68
	DIOCTYL FUMARATE	% BY WT.	5 Max	0.59	
03.	COLOR (Pt-Co Scale)	APHA	50 Max	28	ASTM D 1209 (SAP/LAB/70)
04.	WATER CONTENT	% W/W	0.1 Max	0.092	ASTM E 1064 (SAP/LAB/66)
05.	ACID VALUE	mg KOH/gm	0.1 Max	0.100	ASTM D 1613 (SAP/LAB/63)
06.	DENSITY @ 20°C	g/cm ³	0.935 - 0.945	0.943	ASTM D 4052 (SAP/LAB/64)

Expiry date : Best before 12 months from the date of production.



HEAD

QUALITY ASSURANCE

Form No : L/10/17-A-Oct'20

AN ISO 9001 / ISO 14001 / ISO 45001 CERTIFIED COMPANY