



ORIGINAL

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PT Musim Mas

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CERTIFICATE OF ANALYSIS

DESCRIPTION OF GOODS

: 5 X 20FT FCL : 100 MT = 400 DRUMS
PRODUCT NAME: MASCEROL GLYCERINE 99.7PCT USP
PACKING: STANDARD MUSIM MAS 250KG NEW STEEL LINED DRUMS, LOOSE STUFFED

LOT NO.

: 5482GME3L, 5492GME3L

TEST PARAMETER	UNIT	TEST METHOD	RESULTS		SPECIFICATION
			LOT NO.		
			5482GME3L	5492GME3L	
GLYCERINE CONTENT	%	AOCS Ea 7-95	99.8	99.8	99.7 MIN
SPECIFIC GRAVITY	25/25°C	USP43-NF38	1.2616	1.2616	1.2612 MIN
COLOUR	APHA	AMT-FGQ-G10	<10	<10	10 MAX
IDENTIFICATION TEST A ¹		USP43-NF38	PASSED	PASSED	PASSES
IDENTIFICATION TEST B ¹					
- DIETHYLENE GLYCOL	%	USP43-NF38	<0.10	<0.10	0.10 MAX
- ETHYLENE GLYCOL	%	USP43-NF38	<0.10	<0.10	0.10 MAX
IDENTIFICATION TEST C ¹		USP43-NF38	PASSED	PASSED	PASSES
RESIDUE ON IGNITION	%	USP43-NF38	<0.01	<0.01	0.01 MAX
MOISTURE	%	USP43-NF38	0.04	0.05	0.3 MAX
CHLORIDE	ppm	USP43-NF38	<10	<10	10 MAX
SULFATE	ppm	USP43-NF38	<20	<20	20 MAX
HEAVY METALS ¹	ppm	USP 39	<5	<5	5 MAX
LIMIT OF CHLORINATED COMPOUNDS	ppm	USP43-NF38	<30	<30	30 MAX
FATTY ACIDS & ESTERS	ml 0.5N NaOH	USP43-NF38	0.32	0.32	1.0 MAX
RELATED COMPOUNDS (INDIVIDUAL IMPURITY) ¹	%	USP43-NF38	<0.1	<0.1	0.1 MAX
RELATED COMPOUNDS (TOTAL IMPURITIES) ¹	%	USP43-NF38	<1.0	<1.0	1.0 MAX
ASSAY	%	USP43-NF38	99.9	99.9	99.0 - 101.0



MARIA THERESA M. SARENO
LABORATORY MANAGER
Ref No. SC/22/GLY/0355(1)
PT. MUSIM MAS
(AS MANUFACTURER)