



IFFCO (MALAYSIA) SDN. BHD. Company No. : 199901010877 (485773-W)

REF NO: 7002003865

07/01/2022

ISSUING BANK'S NAME : EMIRATES NBD BANK PJSC
LETTER OF CREDIT NUMBER : ENBDLC21005028 DATE OF ISSUE: 211215

CERTIFICATE OF ANALYSIS

DESCRIPTION	REFINED GLYCERINE 99.7% USP 42
BATCH NUMBER OF THE PRODUCT	G1108
QUANTITY	100 MT
MANUFACTURING DATE	16/12/2021
EXPIRY DATE	15/12/2023

PARAMETERS	Test Method	Specification		Results
		Min	Max	
Assay (anhydrous)	USP 43	99.7	-	99.84
Identification				
Identification A-Infrared Absorption	USP 43 (Method 1-197F)	Meet test requirement as per test method		Complies
Identification B-Limits of Ethylene Glycol %	USP 43	-	0.10	<0.10
Identification B-Limits of Diethylene Glycol %	USP 43	-	0.10	<0.10
Identification C -Confirmation of glycerine by GC	USP 43	Meet test requirement as per test method		Complies
Inorganic Impurities				
Residue on Ignition, %	USP 43	-	0.01	<0.01
Sulphates, ppm	USP 43	-	20.0	<20.0
Chlorides, ppm	USP 43	-	10.0	5.00
Organic Impurities				
Fatty Acid & Ester (0.5N NaOH) ml	USP 43	-	1.0	0.55
Related Compounds -Individual impurities, %	USP 43	-	0.10	<0.10
Related Compounds Total Impurities, %	USP 43	-	1.0	<1.0
Limit of Chlorinated Compounds, ppm	USP 43	-	30.0	<30.0
Specific Test				
Specific Gravity @ 25°C	USP 43	1.249	-	1.2600
Refractive index @ 25°C	BP	1.470	1.475	1.4730
Water Determination %	USP 43	-	0.3	0.16
Color	USP 43	Meet the requirement as per the method		Passed
Color, APHA	AOCS Ea 9-65 : 1997	-	10	3.9
REMARKS : THIS MATERIAL COMPLIES AS PER THE SPECIFICATION				