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### CERTIFICATE OF ANALYSIS

Page 1 of 1

PRODUCT : CETYL ALCOHOL PS  
 OUR CONTRACT NO. : 227181  
 PURCHASE ORDER NO. : V114/2015-CF  
 DATE : Jun 30 2015  
 BATCH NUMBER : M151600070  
 DELIVERY NO : 80314230  
 DATE OF SHIPMENT : Jul 03 2015  
 SAMPLE DETAILS : Representative sample of bag

TEST	RESULT	SPEC	REF.METHOD
Acid value (mgKOH/g)	0.01	<= 0.10	ISO 660 (Part 5):1996
Iodine value % I 2	0.02	<= 0.50	AOCS Tg 1-64:1997
Saponification value (mgKOH/g)	0.23	<= 0.50	AOCS Tl 1a-64:1997
* Hydroxyl value (mgKOH/g)	230	228 - 233	AOCS Cd 13-60:1997
Water (Karl Fischer) %	0.10	<= 0.30	ISO 760 (Part 7) :1978
* Solidification Point °C	49.2	47.0 - 50.0	ISO 3841:1977
<u>Carbon Chain Distribution by GC.%</u>			
C14 & below	0.2	<= 2.0	EM QCA006:2011
C16	99.3	>= 98.0	EM QCA006:2011
C18	0.2	<= 2.0	EM QCA006:2011
DATE OF MANUFACTURE	Jun 10 2015		
EXPIRY DATE	Jun 08 2017		

We hereby certify the analysis of the sample as shown above.

BATCH QTY: 162 BGS



ZURINDA AZIZ  
 QC CHEMIST B.SC.(HONS) A.M.I.C

Remarks: SAMM : Laboratory Accreditation Scheme of Malaysia  
 \*Test conducted every 3 month[s].



MS ISO/IEC 17025  
 TESTING  
 SAMM NO. 035

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