

YOUR REF. : -
 DATE RECEIVED : JUL 01, 2010
 DATE REPORTED: JUL 15, 2010

Certificate No. : **LPAE/0827/10**
 Company : **Messrs. Pioneerfeed Bioscience Sdn. Bhd.**
LIU B2, Precinct 3, Port Klang Free Zone
42920 Pulau Indah, Selangor Darul Ehsan.

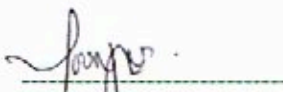
CERTIFICATE OF ANALYSIS

One (1) sample said to be **RUBY E-OIL**, contained in One (1) 500mL. plastic bottle, was received from M/s. Pioneerfeed Bioscience Sdn. Bhd., Pulau Indah, Selangor Darul Ehsan.

On analysis of the sample, the following results were obtained:-

<u>TEST PARAMETERS</u>	<u>TEST METHODS</u>	<u>RESULTS</u>
FREE FATTY ACID (AS PALMITIC)	AOCS Ca 5a-40	4.24 %
MOISTURE & VOLATILE MATTER	AOCS Ca 2c-25	0.11 %
IMPURITIES	AOCS Ca 3a-46	0.05 %
IODINE VALUE (WIJ'S)	AOCS Cd 1d-92	62.7
COLOUR	AOCS Cc 13e-92	DARK BROWN
ACID VALUE	AOCS Ca 3a-46	9.28
PEROXIDE VALUE	AOCS Cd 8-53	1.28 meq/kg
SAPONIFICATION VALUE	AOCS Cd 3-25	193.8 mg koh/g
VITAMIN A	CL-TM-01-024 (HPLC)	0.02 mg/100g
VITAMIN E	CL-TM-01-002 (HPLC)	3.10 mg/100g
FATTY ACID COMPOSITION	AOCS Ce 1e-91	
C12:0		0.1 %
C14:0		0.9 %
C16:0		36.6 %
C16:1		0.7 %
C18:0		5.1 %
C18:1		41.3 %
C18:2		14.7 %
C18:3		0.2 %
C20:0		0.4 %

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 B.Sc. (HONS) AMIC
 CHEMIST

Pg: 1 of 1

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