

Gracefruit Ltd
209 Glasgow Road
Longcroft
Bonnybridge
FK4 1QQ

CERTIFICATE OF ANALYSIS

PRODUCT NAME: MANGO, BUTTER

LOT NUMBER: LOT0000838

PRODUCT INCI: MANGIFERA INDICA SEED

PRODUCT CODE: K0280

CAS NUMBER: 90063-86-8

EINECS NUMBER: 290-045-4

MANUFACTURING METHOD: EXPPELLER PRESSED & REFINED

MANUFACTURING DATE: 11/07/2018

BEST BEFORE DATE: 31/07/2020

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	SOFT – SEMI SOLID BUTTER	-
COLOUR	OFF WHITE – PALE YELLOW	-
COLOUR (GARDNER)	<6.0	3.8
ODOUR	ODOURLESS	-
MELTING POINT (C)	45.0 – 55.0	-
FREE FATTY ACID (% AS OLEIC)	<0.25	-
IODINE VALUE	40.0 – 55.0	45.3
SAPONIFICATION VALUE (MG KOH/G)	180.0 – 195.0	185.1
UNSAPONIFIABLE MATTER (%)	<5.0	0.4
ACID VALUE (MGKOH/G)	<0.5	0.09
PEROXIDE VALUE	<10.0	0.4
MOISTURE	<0.10	-

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C12:0	LAURIC	<1.5	0.14
C14:0	MYRISTIC	<1.5	0.17
C16:0	PALMITIC	11.0 – 17.0	12.93
C16:1	PALMITOLEIC	<1.0	0.08
C18:0	STEARIC	30.0 – 45.0	41.08
C18:1	OLEIC	36.0 – 51.0	39.17
C18:2	LINOLEIC	3.0 – 8.0	5.26
C18:3	LINOLENIC	<0.8	0.19

C20:0	ARACHIDIC	<2.0	0.81
C20:1	ICOSENOIC	<1.0	0.21
C22:0	BEHENIC	<1.0	0.16