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Certificate of Analysis Sheet

Organic Mandarin Essential Oil - Red (Citrus reticulata rosso)

Product Name	Organic Mandarin Oil Red Cold Pressed FG				
Customer	-				
Batch	BN130417-3	Product Code	-	Date	12/04/2017

TEST RESULTS

ANALYTICAL TEST	SPECIFICATION RANGE	RESULT
Appearance	Mobile liquid, orange to red	Conforms
Odour	Typical of mandarin, sweet	Conforms
Relative Density @ 20°C (g/ml)	0.841 - 0.851	0.846
Optical Rotation @ 20°C (Degrees)	+72.0 to +82.0	+75.0
Refractive Index @ 20°C	1.469 - 1.479	1.473
Peroxides (mmol/l)	≤ 20.0	12.0

STORAGE

Shelf life of this product is influenced by many conditions of which temperature, exposure to light / air and general good storage are the major factors. Material stored in adverse conditions may deteriorate much faster. Our suggested "Re-test" date shown on this certificate reflects a minimum period in which we would expect product to remain in good usable conditions if stored as recommended. Thereafter its continued shelf life may be very much longer and we advise re-test at the indicated date and then every 3-6 months up to a suggested commercial expiry date as shown below. The expiry date is subjective and should be controlled by QC/QA. Typical indicators of re-test failure would be changes in organoleptic properties (clarity / colour / sediment / haze / off odour etc) Such changes may be gradual and slight and the commercial expiry date is intended to reflect a viable maximum proposal subject to earlier re-test approvals

STABILITY

Date of packing:	**04/17**
Re-test date:	**10/18**
Commercial expiry date:	**04/19**