



Aromatic solutions
for a global market

Hughes & Company

Certificate of Analysis

Product Name	Neem Oil
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Batch	39504-37	Product Code	-	Date	10/06/2021
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TEST RESULTS

ANALYTICAL TEST	SPECIFICATION RANGE	RESULT
Appearance	Brown to greenish brown oily liquid	Conforms
Odour	Typical Neem	Conforms
Specific Gravity @ 25°C (g/ml)	0.905 – 0.975	0.926
Refractive Index @ 40°C	1.450 – 1.490	1.480
Iodine value (g/ml)	55.0 – 85.0	76.0
Saponification Value (mgKOH/g)	≥ 180.0	197.0
Azadiractin Content (ppm)	≥ 1300	1620.20
Acid Value (mgOH/g)	≤ 20.0	16.01

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:	04/21
Re-test date:	10/22
Commercial expiry date:	04/23