

Final report no	014/001
Client	Oriental Group
Sample description	Argan oil 250mL
Sample batch	C06/17
Original packaging (type and size)	Plastic bottle with cap 250 ml
Sample received	12.4.2017
Date testing started	13.4.2017
Date testing completed	6.7.2017
Report completed	7.7.2017

STABILITY AND COMPATIBILITY TEST REPORT

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EVALUATION OF PHYSICHAL PROPERTIES OF THE PRODUCT IN GLASS CONTAINER

Parameter	luitial	Accelerated study 40°C					Accelerated study 5°C			
Parameter	Initial	2 weeks	6 weeks	10 weeks	12 weeks	2 weeks	6 weeks	10 weeks	12 weeks	
Date	13.4.2017	27.4.2017	25.5.2017	22.6.2017	6.7.2017	27.4.2017	25.5.2017	22.6.2017	6.7.2017	
Appearance	Oily liquid	Oily liquid	Oily liquid	Oily liquid	Oily liquid	Oily liquid	Oily liquid	Oily liquid	Oily liquid	
Colour	Yellow transparent	Yellow transparent	Yellow transparent	Yellow transparent	Yellow transparent	Yellow transparent	Yellow transparent	Yellow transparent	Yellow transparent	
Odour	Characteristic	Characteristic	Characteristic	Characteristic	Characteristic	Characteristic	Characteristic	Characteristic	Characteristic	
рН	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Density (g/ml)	0,906	0,905	0,905	0,904	0,905	0,909	0,910	0,909	0,910	
Phase separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	



Figure 1: Product in glass container before (left) and at the end (right) of the 40°C stability test.



EVALUATION OF PHYSICHAL PROPERTIES OF THE PRODUCT IN ORIGINAL PACKAGING

Doromotor Initial		Accelerated study 40°C				Accelerated study 5°C			
Parameter	Initial	2 weeks	6 weeks	10 weeks	12 weeks	2 weeks	6 weeks	10 weeks	12 weeks
Date	13.4.2017	27.4.2017	25.5.2017	22.6.2017	6.7.2017	27.4.2017	25.5.2017	22.6.2017	6.7.2017
Appearance	Oily liquid	Oily liquid	Oily liquid	Oily liquid	Oily liquid	Oily liquid	Oily liquid	Oily liquid	Oily liquid
Colour	Yellow transparent	Yellow transparent	Yellow transparent	Yellow transparent	Yellow transparent	Yellow transparent	Yellow transparent	Yellow transparent	Yellow transparent
Odour	Characteristic	Characteristic	Characteristic	Characteristic	Characteristic	Characteristic	Characteristic	Characteristic	Characteristic
pН	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Density (g/ml)	0,906	0,904	0,905	0,904	0,904	0,911	0,910	0,910	0,910
Phase separation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A



Figure 2: Product in its original packaging before (left) and at the end (right) of the 40°C stability test.



EVALUATION OF ORGANOLEPTIC PROPERTIES OF AFTER FREEZE-THAW TESTING (-30°C ightarrow 25°C)

Parameter	Cycle 1	Cycle 2	Cycle 3
Date	Oily liquid	Oily liquid	Oily liquid
Appearance Yellow transparent		Yellow transparent	Yellow transparent
Colour	Characteristic	Characteristic	Characteristic
Odour	Oily liquid	Oily liquid	Oily liquid
Phase separation	N/A	N/A	N/A



EVALUATION OF MICROBIOLOGICAL STABILITY OF THE PRODUCT – INITIAL

Test	Method	Result
Total aerobic mesophilic bacteria	According to ISO 21149:2009	√10 CFU/g
Enumeration of yeast and mould	According to ISO 16212:2008	₹ 10 CFU/g
Presence of Candida albicans	According to ISO 18416:2009	Absent in 1g
Presence of Pseudomonas aeruginosa	According to ISO 22717:2016	Absent in 1g
Presence of Staphylococcus aureus	According to ISO 22718:2016	Absent in 1g
Presence of Eschericchia coli	According to ISO 21150:2010	Absent in 1g



EVALUATION OF MICROBIOLOGICAL STABILITY OF THE PRODUCT – FINAL

Test	Method	Result
Total aerobic mesophilic bacteria	According to ISO 21149:2009	√ 10 CFU/g
Enumeration of yeast and mould	According to ISO 16212:2008	√ 10 CFU/g
Presence of Candida albicans	According to ISO 18416:2009	Absent in 1g
Presence of Pseudomonas aeruginosa	According to ISO 22717:2016	Absent in 1g
Presence of Staphylococcus aureus	According to ISO 22718:2016	Absent in 1g
Presence of Eschericchia coli	According to ISO 21150:2010	Absent in 1g

CONCLUSION:

12 week stability and compatibility study of product in glass container and original packaging confirmed the shelf life of 36 months.

^{*}The results relate to the analysed samples only.