

FINAL REPORT

ACCELERATED STABILITY STUDY **AT 4 ± 5°C, 25 ± 5°C, 40 ± 5°C, CONTROLLED CONDITION**

STUDY N°	MMCA472/17-01
SPONSOR	The Mud Men Inc. Box 18089 Shawnessy, Calgary, AB, T2Y 0K3
SAMPLE	Mud Mask Batch: 15160914A & 15170914A
REPORT N°	REL/CA/0812/2017/REA
DATE	25/08/2017

The results reported here in do exclusively refer to the tested sample

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Summary

1.1 Sample for Analysis:

ABICH ID: CA0472/17-01
Sample: Mud Mask
Batch: 15160914A & 15170914A
Description: Mud

1.2 Entrusted Laboratory:

ABICH Inc.
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1.3 Laboratory Technician

Yang Xu

1.4 Study Director:

Michela Pollastri

1.5 Study Dates:

Starting Date: 24/04/2017
Ending Date: 26/07/2017

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Study Design

2.1 Purpose of Study:

The stability test was carried out at the temperature of 4°C , 25°C and 40°C for three months. During this period, the product was monitored at 5 endpoints: T0, T15 days, T30 days, T60 days and T90 days (section 2.2) and the product was tested from several study parameter (section 2.3).

2.2 Description of Study Procedure:

Sample of 25°C was analyzed by measuring evaluation parameter at endpoint T0.

Sample of 4°C, 25°C, 40°C were analyzed by measuring evaluation parameter at endpoint T15.

Sample of 4°C, 25°C, 40°C were analyzed by measuring evaluation parameter at endpoint T30.

Sample of 4°C, 25°C, 40°C were analyzed by measuring evaluation parameter at endpoint T60.

Sample of 4°C, 25°C, 40°C were analyzed by measuring evaluation parameter at endpoint T90.

2.3 Description of Study Parameter:

Centrifugation Test: This test points out any phase separation or solid precipitation in the sample. The product was centrifuged at 35000 rpm/min for 2 x 30 min with Fisher Scientific Centrifug Model 228. The results were expressed as Stable/Separated/Oil on the Top/Bubbles. After making comparison with T0, the results can be concluded as STABLE (S) / NOT STABLE (NS)

Density Test: The density is measured with Pycnometer. The results were expressed as "value" ± 0.001g/ml

pH Test: pH was measured with pH-meter Milwaukee MW102 pH/Temp Meter at the temperature of 25°C. The results were expressed as "value" ± 0.01 pH unit. [N/A: NOT APPLICABLE]

Organoleptic Properties (Aspect and Odour): Appearance, color and odour were determined by visual inspection, and they were evaluated by making comparison with T0. The results were expressed as COMPLIANT (C) / NOT COMPLIANT (NC)

Results and Conclusion

3.1 Evaluation of Results

ACCELERATED STABILITY STUDY 4°C± 5°C, 25°C± 5°C, 40 ± 5°C

Study Parameter at T0 25°C					
Test	Centrifugation Test	Density value ± 0.001g/ml	pH value ± 0.01	Odour	Aspect
T0 Date 24/04/2017	Separated*	1.902	4.69	Herbal, Earthy	Brown thick paste

Study Parameter															
Test	Centrifugation Test (S or NS)			Density value ± 0.001g/ml ± 0.200 g/ml			pH value ± 0.01 ± 0.30			Odour (C or NC)			Aspect (C or NC)		
Tolerance	-			-			-			-			-		
Temperature (T)	4°C	25°C	40°C	4°C	25°C	40°C	4°C	25°C	40°C	4°C	25°C	40°C	4°C	25°C	40°C
T15 Date 15/05/2017	S	S	S	1.895	1.903	1.896	4.85	4.80	4.81	C	C	C	C	C	C
T30 Date 26/05/2017	S	S	S	1.979	1.944	1.937	4.90	4.96	4.85	C	C	C	C	C	C
T60 Date 26/06/2017	S	S	S	1.935	1.968	1.955	4.88	4.85	4.68	C	C	C	C	C	C
T90 Date 26/07/2017	S	S	S	1.915	1.917	1.967	4.72	4.60	4.44	C	C	C	C	C	C
Comments**	No Variation			No Variation			No Variation			No Variation			No Variation		

* Separation is normal, because of the natural of this product

** Graphs under section 3.3 Attachments indicate significant variation

Note: small variations, within the variability method range are not significant

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3.2 Conclusion For Product - Mud Mask, Batch: 15160914A & 15170914A

By monitoring the compliance of product **Mud Mask, Batch: 15160914A & 15170914A** study parameter under 4°C, 25°C, 40°C conditions after 3 months, the study shows no significant variation of all study parameter.

Laboratory Technician
Yang Xu

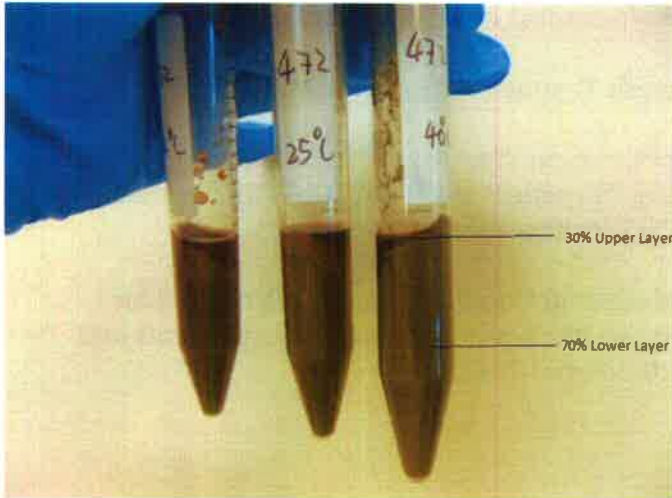


Study Director
Michela Pollastri



3.3 Attachments:

3.3.1 Centrifugation for all conditions after 3 months



3.3.2 Aspect after 3 months



3.4 Bibliography

Emulsion Stability and Testing – Particle Sciences, Technical Brief, 2011 Volume 2,
[ONLINE] Available at:
http://www.particlesciences.com/docs/technical_briefs/TB_2011_2.pdf

Guidelines on Stability Testing of Cosmetic Products - CE - CTFA, March 2004

International Federation of Societies of Cosmetic Chemists, IFSCC Monograph, Number
2: The Fundamentals of Stability Testing, Michelle Press, 1992 [ONLINE] Available at:
<http://www.ifsc.org/Publications/IFSCCMonographs>.

Scientific Committee on Cosmetic Products and Non-Food Products Intended for
Consumers (SCCNFP) Notes of Guidance for the testing of cosmetic ingredients and
their safety evaluation, 5th Revision, 20 October 2003.