

ข้อกำหนดเฉพาะของวัตถุดิบ
(Raw Material Specification)

ชื่อวัตถุดิบ (RM Name) :	DI Water	รหัสวัตถุดิบ (RM Code) :	RSLQ00540
ชื่อทางเคมี (INCI Name) :	Water		
ผู้ผลิต (Manufacturer) :	RHK Group Company Limited., Thailand	ผู้ขาย (Supplier) :	RHK Group Company Limited., Thailand

ลำดับ (No.)	หัวข้อตรวจสอบ (Item)	วิธีการ (Method)	ข้อกำหนดเฉพาะ (Specification)
1	คุณลักษณะ (Appearance)	Visual	Liquid Clear
2	สี (Color)	Visual	Colorless
3	กลิ่น (Odor)	Olfactory	Odorless
4	ความเป็นกรด-ด่าง (pH)	pH Meter	5.50-7.50
5	ความหนืด (Viscosity)	Viscometer	-
6	ความถ่วงจำเพาะ (Specific Gravity)	Pycnometer	-
7	จุดหลอมเหลว (Melting Point)	Thermometer	-
8	การละลาย (Solubility)	Visual	-
9	การตรวจสอบเชื้อแบคทีเรีย ทั้งหมด (Total Bacterial)	Test Kit	< 100 CFU/g
10	การนำไฟฟ้า (Conductivity) @25°C	Conductivity Meter	0.1-1.0 μ S/cm

การเก็บรักษา (Storage) :	Storage at room temperature. Shelf life 24 months. (<i>Room Temperature@25°C</i>)
หมายเหตุ (Remark) :	

อริสรา ผู้จัดทำ : อริสรา สดาวรรณกุล ตำแหน่ง : หัวหน้าแผนกวิจัยและพัฒนาผลิตภัณฑ์ วันที่ : 21/06/2022	อัจฉรา ผู้ตรวจสอบ : อัจฉรา จงประสพโชค ตำแหน่ง : ผู้จัดการแผนกวิจัยและพัฒนาผลิตภัณฑ์ วันที่ : 21/06/2022	Am ผู้อนุมัติ : สดาวรรณ โพธิ์ทอง ตำแหน่ง : ผู้จัดการฝ่ายวิจัยและพัฒนาผลิตภัณฑ์ วันที่ : 21/06/2022
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288/4 หมู่ที่ 4 ตำบลบางหญ้าแพรก อำเภอเมืองสมุทรสาคร จังหวัดสมุทรสาคร 74000

[illegible]

[Signature]

วันที่: 21/06/2022

600M 3A

วันที่ : 21/06/2022

66

วันที่: 21/06/2022

ข้อกำหนดเฉพาะของวัตถุดิบ
(Raw Material Specification)

ชื่อวัตถุดิบ (RM Name) :	Aloe Vera Fresh	รหัสวัตถุดิบ (RM Code) :	RSSS00065
ชื่อทางเคมี (INCI Name) :	Aloe Vera Leaf Extract		
ผู้ผลิต (Manufacturer) :	มินาทรานสปอร์ต	ผู้ขาย (Supplier) :	มินาทรานสปอร์ต

ลำดับ (No.)	หัวข้อตรวจสอบ (Item)	วิธีการ (Method)	ข้อกำหนดเฉพาะ (Specification)
1	คุณลักษณะ (Appearance)	Visual	สีน้ำตาลใสจะเข้ปอกเปลือก
2	สี (Color)	Visual	Colourless
3	กลิ่น (Odor)	Olfactory	Match to standard
4	ความเป็นกรด-ด่าง (pH)	pH Meter	-
5	ความหนืด (Viscosity)	Viscometer	-
6	ความถ่วงจำเพาะ (Specific Gravity)	Pycnometer	-
7	จุดหลอมเหลว (Melting Point)	Thermometer	-
8	การละลาย (Solubility)	Visual	Insoluble in water
9	การตรวจสอบเชื้อแบคทีเรีย ทั้งหมด (Total Bacterial)	Test Kit	<500 CFU/g

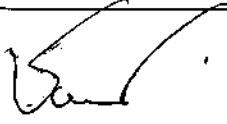
การเก็บรักษา (Storage) :	Shelf life 7 days. (Refrigerator@4°C)
หมายเหตุ (Remark) :	

 ผู้จัดทำ : อัจฉรา จงประสบโชค ตำแหน่ง : ผู้จัดการแผนกวิจัยและพัฒนาผลิตภัณฑ์ วันที่ : 30/10/2023	 ผู้ตรวจสอบ : อัจฉรา จงประสบโชค ตำแหน่ง : ผู้จัดการแผนกวิจัยและพัฒนาผลิตภัณฑ์ วันที่ : 30/10/2023	 ผู้อนุมัติ : ลดาวรรณ โพธิ์ทอง ตำแหน่ง : ผู้จัดการฝ่ายวิจัยและพัฒนา PK & FG วันที่ : 30/10/2023
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288/4 หมู่ที่ 4 ตำบลบางหญ้าแพรก อำเภอเมืองสมุทรสาคร จังหวัดสมุทรสาคร 74000

ALTERNATIVE RAW MATERIAL SUPPLIER LIST

ลำดับที่	รหัสวัตถุดิบ	ชื่อวัตถุดิบ	ชื่อทางเคมี (INCI)	ผู้ผลิต	ผู้ขาย	Shelf life
1	RSS00065	Aloe Vera (Fresh)			มีนาทรานสปอร์ต	
2	RSS00065-1	Aloe Vera (Fresh)	Aloe Vera Leaf Extract	จังหวัดสมุทรสาคร	จังหวัดสมุทรสาคร	7 days.
3						
4						
5						
6						
7						
8						
9						
10						

ผู้จัดทำ :	ผู้ตรวจสอบ :	ผู้อนุมัติ :
	อัจฉรา (RD)	
ตำแหน่ง : เจ้าหน้าที่ฝ่ายจัดหาจัดซื้อ	ตำแหน่ง : เจ้าหน้าที่ R&D และ เจ้าหน้าที่ QC	ตำแหน่ง : ผู้จัดการฝ่ายวิจัยและพัฒนา
วันที่ : 3/11/65	วันที่ :	วันที่ :

หมายเหตุ : เอกสารเพิ่มเติมที่ต้องการจาก Supplier สำหรับยื่นขอขึ้นทะเบียน Alternative Raw Material

1. Technical Data Sheet(TDS)
2. Safety Data Sheet(SDS)
3. Product Specification
4. Shelf life Product

CERTIFICATE OF ANALYSIS

No.0153

Product Name	Dexpanthenol	Manufacture Date	Apr.23,2023
Batch No.	PA2304014	Analysis Date	May.10,2023
Lot Size	560kg	Expiry Date	Apr.22,2025
Executive Standard	2021	Order No.	—

Analysis Item	Unit	Specification	Test Method	Result
Characters	—	Clear,viscous,somewhat hygroscopic liquid; Some crystallization may occur on standing	Eyeballing	Clear, viscous liquid
Solubility	—	Freely soluble in water,in alcohol ,in methanol,and in propylene glycol;soluble chloroform and in ether;slightly soluble in glycerin	Weight/volume method	Conform
Identification of Blue vitriol*	—	Deep blue	Development process	The solution is deep blue
Identification of Iron trichloride*	—	Purplish red	Development process	The solution is purplish red
Identification of IR	—	Conform to standard spectrum	IR	Conform
Assay	%	98.0-102.0	Perchloric acid titration	100.0
Residue on ignition	%	≤0.1	Combustion method	0.06
Related substances (Aminopropanol)	%	≤1.0	Sulfuric acid titration	0.50
The specific rotation	°	+29.0 to +31.5	Polarimeter	+30.0
Refractivity (20℃)	—	1.495-1.502	Abbe refractometer	1.500
Moisture	%	≤1.0	KF	0.60
Heavy Metals(as lead)*	mg/kg	≤10	Colorimetry	<10

Conclusion: Complies with the requirements

Note: 1. The items labelled with * are tested at regular intervals.

2. Heavy metals is a non-usp indicator, which is internal control standard test item.

QUALITY MANAGER:

Wei Zhang

Jishan industrial park

Pengze Jiujiang City Jiangxi Province China

Phone: 0086-0573-87015336/87015331

FAX: 0086-0573-87015333

Http: //www.brother.com.cn



Please note that the certificates of analysis are also conveniently available on your BASF online portal.

CATALITE CO., LTD.

36-36/1 Chaloem Phrakiat Ratchakan

10250 Bangkok
Thi 9 Soi 28 Yak 10, Chaloem Phraki
Thailand

Inspection Certificate 3.1 according to EN 10204

2023-10-11

Page 1 of 6

Certificate No 5889

Hr. Dr. Florian Wildschek
ENT/QA
florian.wildschek@basf.com

Vitamin E-Acetate Care

25KG Plastic drums
Purchase order/Customer material
PO23090074
000000000050131677

Material	50131677
Order	6011553348 000010
Delivery	3197506509 000010
Lot	51266056P0
Lot/Qty	1525.000 KG
Total	1800.000 KG
Transport	RDE62RT

Manufacturing Location: DE, 67056 Ludwigshafen, Carl-Bosch-Str. 38

Test Parameter	Requirements	UoM	Results
Appearance PM01055QC	viscous light yellow oil		conforms
Identification (GC) (Retention Time) Ph.Eur.	must conform		conforms
Assay DL-alpha-Tocopheryl acetate (GC) (Ph.Eur.) Ph.Eur.	Min.: 96.5 Max.: 102.0	g/100g	99.5
Assay DL-alpha-Tocopheryl acetate (GC) (USP) USP	Min.: 96.0 Max.: 102.0	g/100g	99.4
Assay DL-alpha-Tocopheryl acetate (GC) (FCC) USP	Min.: 960 Max.: 1020	I.U./g	994
Related substances (Impurity A) Ph.Eur.	Max.: 0.5	Area-%	<0.1
Related substances (Impurity B) Ph.Eur.	Max.: 1.5	Area-%	<0.1

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

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CATALITE CO., LTD.

2023-10-11

Certificate No 5889

Page 2 of 6

36-36/1 Chaloom Phrakiat Ratchakan

Hr. Dr. Florian Wildschek

10250 Bangkok

ENT/QA

Thi 9 Soi 28 Yak 10, Chaloom Phraki

florian.wildschek@basf.com

Thailand

Inspection Certificate 3.1 according to EN 10204

Vitamin E-Acetate Care

Material

50131677

25KG Plastic drums

Order

6011553348 000010

Purchase order/Customer material

Delivery

3197506509 000010

PO23090074

Lot

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000000000050131677

Lot/Qty

1525.000 KG

Total

1800.000 KG

Transport

RDE62RT

Manufacturing Location: DE, 67056 Ludwigshafen, Carl-Bosch-Str. 38

Test Parameter	Requirements	UoM	Results
Related substances (Impurity C) Ph. Eur.	Max.: 0.5	Area-%	<0.1
Related substances (sum of impurity D and E) Ph. Eur.	Max.: 1.0	Area-%	0.2
Related substances (total impurities) Ph. Eur.	Max.: 2.5	Area-%	0.2
Related substances (any other impurity) Ph. Eur.	any other impurity max. 0.25 Area -%		conforms
Optical rotation Ph. Eur.	Min.: -0.01 Max.: +0.01	degree	-0.00
Acidity USP	must conform		conforms
Residual solvent * methanol PM/00544	must conform (max. 3000mg/kg)		conforms
Residual solvent * heptane PM/00544	must conform (max. 0, 5g/100g)		conforms

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We create chemistry

Certificate of Analysis

BASF SE

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CATALITE CO., LTD.

36-36/1 Chaloem Phrakiat Ratchakan

10250 Bangkok
Thi 9 Soi 28 Yak 10, Chaloem Phraki
Thailand

2023-10-11

Page 3 of 6

Certificate No 5889

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Lot/Qty	1525.000 KG
Total	1800.000 KG
Transport	RDE62RT

Manufacturing Location: DE, 67056 Ludwigshafen, Carl-Bosch-Str. 38

* test verified on random samples

Manufacturer: BASF SE
Carl-Bosch-Str.38
67056 Ludwigshafen
Germany

QC-Reference-No.

23C06605

Production date

(YYYY-MM-DD) 2023-06-06

Release date

(YYYY-MM-DD) 2023-07-03

Best before/Retest date

(YYYY-MM-DD) 2026-06-05

BASF SE
Quality Assurance - Release
sig. Fr. Surdmann
QA-Representative

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

CERTIFICATE OF ANALYSIS

Grasse : 27 November 2023

PRODUCT IDENTITY

Product name	HH-CP MAKOOT 415
Your product code	415
Our order reference	CC 00928964
Your order reference	POZ2311004
Batch number	3516385
Manufacturing date (dd/mm/yyyy)	16/11/2023
Best before (dd/mm/yyyy)	16/11/2024

ANALYSIS

Parameters	Methods	Results	Specifications	
			Minimum	Maximum
Specific Gravity 20/20°C	403 019	0,8946	0,8850	0,9050
Refractive Index 20°C	403 031	1,4605	1,4550	1,4650
Appearance/Colour	403 156	Conforms		
Odour	403 156	Conforms		



HONG HUAT CO., LTD.

77/82-83,85-86 Sinn Sathorn Tower, 21st Floor
Krumthongburi Road, Klongtong Sai
Klong Sarn, Bangkok 10600
Tel : (662) 440-0770, 440-0525-32
Fax : (662) 440-0647-8

QC Manager
Marc JANOTTIN



บริษัท แกรนด์วีวา จำกัด

Grand Viva Co.,Ltd.

27 ชั้น 3, 2/1 ซอยทองหล่อ 2
ทองหล่อ ปทุมวัน กทม. 10330
27 Fl 3, 2/1 Soi Rongmuang 2
Rongmuang Patumwan, Bangkok, Thailand 10330
Tel (662) 219 1830
Fax (662) 219 1833
grandviva@hotmail.com <http://www.tsgroup.co.th>

TS Group of Companies :
Thai Sanguanwat Chemical Co.,Ltd.
Chinnawat Industry Co.,Ltd.
Grand Viva Co.,Ltd.

TEA TREE OIL EOM20004TT

CERTIFICATE OF ANALYSIS

IDENTIFICATION	: TEA TREE OIL EOM20004
LOT NO	: 5948052
MANUFACTURING DATE	: 14/11/2023
EXPIRY DATE	: 25/11/2025

CERTIFICATE OF ANALYSIS

APPEARANCE	: LIQUID
COLOUR	: COLOURLESS TO YELLOWISH
ODOUR	: TYPICAL
DENSITY (20 °C) (g/cm ³)	: 0.8942
REFRACTIVE INDEX (20 °C)	: 1.4774
REFRACTIVE DENSITY (20 °C)	: 0.8956
OPTICAL ROTATION (20 °C)	: 9.6

ROBERTET

ASIA

IM RSG 003 / Versus C
6/11/2019

CERTIFICATE OF ANALYSIS

Product name : HH-SG MUSCOFIX 189642
Customer : HONG HUAT CO. LTD
THAILAND
Customer Ref : 189642
Batch Number : 0000094967
Manufacturing date : 05 December 2023
Best before : 05 December 2025

ANALYSIS

	FI-Methods	Results	Specifications	
			Minimum	Maximum
Specific gravity 20/20°C	FI RSG 005	0.9754	0.9650	0.9850
Refractive index 20°C	FI RSG 006	1.4911	1.4860	1.4960
Appearance / Colour	FI RSG 007	Conform		
Odour	FI RSG 007	Conform		

Singapore, 06 December 2023


Christina S Selvasee
QC Analyst



HONG HUAT CO., LTD.
77/82-83,85-86 Siam Sathorn Tower, 21st Floor
Krungthongburi Road, Klongtomsai
Klong Sarn, Bangkok 10600
Tel : (662) 440-0770, 440-0525-32
Fax : (662) 440-0647-8



PT. SOZIO DESCOLLONGES INDONESIA
KAWASAN INDUSTRI JABABEKA(JABABEKA INDUSTR
ESTATE)
JL JABABEKA V BLOK F KAV 5B
HARJA MEKAR, CIKARANG UTARA
Tel: 02.13.97.01.758
Fax 02.13.97.21.758

Certificate of analysis

Product number	21694
Product	FRAGRANCE TIMO
Quantity	300,00 KGM
Batch	JB02305484
Production plant	JAKARTA
Order number	CAJB023100806
Expiry date	19/10/2025
Manufacturing date	20/10/2023

Characteristics Analyses	Unit Unité	Values Résultats
Aspect		Liquid
Color		Pale yellow to yellow
Odor		Characteristic
Specific gravity @20°C		0.992
Refractive index @ 20°C		1.463

In accordance with specifications

Quality department

Date

2023-04-26

(YYYY-MM-DD)

Time

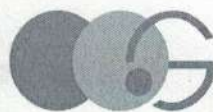
17:45:18 (Greenwich Mean Time) Page 1 of 1

 DOW CHEMICAL THAILAND LIMITED HONG KONG BRANCH		VISTA COMPANY LIMITED 335/12 SRINAKARIN RD, NONGBON, PRAVET BANGKOK 10250 THAILAND Ship From: BAYTOWN Palmer Whse BAYTOWN United States			
Certificate of Analysis		Customer Information			
Product Number	00000061209	Customer Name	VISTA COMPANY LIMITED		
Product Name		Customer PO number	1-178/0323		
VERSENE™ NA2 Crystals					
Delivery No.	825380843 / 000010	Customer Product Code	VERSENE NA 2 CRYSTALS		
Order Number	114839359				
Date Shipped	2023-04-26 (YYYY-MM-DD)	Container ID	HASU4660924		
Shipment No.	42616874	Specification Number	000000009918		
Dow Chemical Thailand Limited (Incorporated in Thailand with Limited Liability)					
Batch Number		D232N24028			
Manufacturing Date		2023-02-08 (YYYY-MM-DD)			
Test	Unit	Lower Limit	Upper Limit	Value	Method
pH 5% Aqueous Solution		4.0	6.0	4.7	ASTM E70
Active Ingredients	WT%	99.00	-	100.42	DOWM 102798
Chelation Value as CaCO3	mg/g	266.00	-	270.05	DOWM 102798
Quality Coordinator					
For inquiries please contact Customer Service or local sales					
®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow					

MANUFACTURING DATE
EXPIRE DATE

08 FEB 2023

07 FEB 2026



GATTEFOSSÉ

Certificate of Analysis

Product name : TRANSCUTOL CG

Item N° : 5389BFC

Batch N° : 196538

Manufacturing date : 07.2023

Reevaluation date : 07.2026

Specification N° : 5389/8

Customer reference : P.C. INTERTRADE CO., LTD

Customer code : 128030

Delivery N° : 80335287

Analysis date : 07.2023

Inspection lot : 40000102005

CHEMICAL DEFINITION :

Highly purified Ethoxydiglycol.

Characteristic	Method	Specification	Result
APPEARANCE	MA0193	Colorless limpid liquid	Conforms
ODOUR	MA0170	Faint	Conforms *
COLOUR (PLATINUM-COBALT)	MA0214	< = 10.00	4.90
SPECIFIC GRAVITY AT 20° C (D20/4)	MA0005	0.985 to 0.991	0.988
REFRACTIVE INDEX AT 20° C	MA0011	1.426 to 1.428	1.426
ACID VALUE	MA0039	< = 0.10 mgKOH/g	< 0.01
PEROXIDE VALUE	MA0010	< = 12.0 meqO2/kg	< 0.1
WATER CONTENT	MA0007	< = 0.10 %	0.02
2- METHOXYETHANOL	MA0123	< = 50 ppm	< 10
2-ETHOXYETHANOL	MA0123	< = 160 ppm	< 10
ETHYLENE GLYCOL	MA0123	< = 310 ppm	< 10
DIETHYLENE GLYCOL MONOETHYL ETHER	MA0123	> = 99.50 %	99.97
DIETHYLENE GLYCOL CONTENT	MA0123	< = 250 ppm	< 10
ETHYLENE OXIDE CONTENT	MA0140	< 1 ppm	Conforms

* Characteristic guaranteed but not tested.

This batch was released by our authorized Quality Manager and was found to meet the specifications as stated above. The above results do not discharge the customer from the obligation to carry out an inspection of goods received.

This report has been produced electronically and does not require a signature.

Printing Date : 01.04.2024

Product Quality Manager
Emilie MOULIN



IMCD THAILAND CO LTD
1858/99-100 INTERLINK TOWER BANGNA
22ND FLOOR DEBARATNA RD
BANGNA TAI BANGNA
BANGKOK TH 10260
THAILAND

Certificate of Analysis

Supplier's Shipment Date
10/13/2023

Truck/Trailer/Container
CAIU358773-7

Delivery Item
0087851829 000010

Order Item
0003767957 000010

Customer Number Customer Reference No
0000150516 13788OP

Material Our Reference / Your Reference
2900010328100 ZEMEA® PROPANEDIOL D0440L / 197133EBR
PLASTIC

Produced by : 1701 PL: Primient Covation LLC 198 Blair Bend Drive 37774-65 Loudon TN US
62

Batch : LP23J00017 / Quantity : 40.000 DRM Internal Ref field :

Production Date : 04-OCT-23 Best Before Date : 03-OCT-25

Inspection Lot : 40000629685

Parameter	Value	Lower Limit	Upper Limit	Method
1,3-Propanediol(%)	99.95	99.8	100	1,3 Propanediol
Hazen Color	3.4		10	Hazen Color
Water by Karl Fisher(ppm)	32.1		1000	Water
Appearance, Suspended Matter	Pass	Pass	-	Appearance, Suspended Matter

Seals for Shipment: 82066

Kathryn Allen
Quality Assurance Manager

Date

2023-11-10

(YYYY-MM-DD)

Time 06:25:19

(Greenwich Mean Time) Page 1 of 4

 DOW CHEMICAL THAILAND LTD		Ship From: Yusen Laem Chabang Sub Mft Chonburi Thailand			
Certificate of Analysis Product Number 00000114877 Product Name Propylene Glycol USP/EP Delivery No. 826550844 / 000010 Order Number 115585798 Shipping Units 40.000 DR Shipment No. 43650232			Customer Information Customer PO number PR6611001 Specification Number 000000059518		
Batch Number Expiration Date Manufacturing Date Quantity Net Weight Manufacturing Plant Manufacturer Address		C815NB7R41 2025-11-06 (YYYY-MM-DD) 2023-11-07 (YYYY-MM-DD) 40.000 DR 8600.000 KG MTP AIE PG 10/4 Moo 2 ASIA IND EST BANCHANG Rayong 21130			
It is hereby certified that the material indicated above has been inspected and tested in accordance with the conditions and requirements of the contract or purchase order and, unless agreed otherwise conforms in all respects to the specification relevant thereto and it meets all requirements of the current United States Pharmacopoeia, current Food Chemical Codex, current European Pharmacopoeia and current Pharmacopoeia of Japan.					
Test	Unit	Lower Limit	Upper Limit	Value	Method
Assay	%	99.80	-	99.97	Current USP
M Acidity	ml	-	0.20	0.01	Current USP
M Chlorides	ppm	-	70	< 70	Current USP
S Residue on Ignition USP	%	-	0.0070	0.0015	Current JP
M Specific Gravity @ 25/25degC		1.035	1.037	1.036	Current USP
M Spec. Grav. @ 20C		1.0376	1.0389	1.0382	ASTM D4052
M Sulfate	ppm	-	60	< 60	Current USP
Water Content	%	-	0.200	0.009	Current USP
M ID Test A matches IR scan	-	-	-	Pass	Current USP

Date

2023-11-10

(YYYY-MM-DD)

Time 06:25:19 (Greenwich Mean Time) Page 2 of 4



DOW CHEMICAL THAILAND LTD

 Ship From: Yusen Laem Chabang Sub Mft
 Chonburi
 Thailand

ID Test B	-	-	-	Pass	Current USP
Limit of Ethylene Glycol					
ID Test B	-	-	-	Pass	Current USP
Limit of Diethylene Glycol					
ID Test C	-	-	-	Pass	Current USP
Matches GC Scan					
M Acidity	ml	-	0.05	0.01	Current EP
M Boiling Point	°C	184	189	186	Current EP
M Clarity	-	-	-	Pass	Current EP
M Color	-	-	-	Pass	Current EP
O Melting Point	°C	121	128	124	Current EP
M Oxidizing Substances	ml	-	0.20	0.03	Current EP
0.05M sodium thiosulfate					
M Reducing Substances	-	-	-	Pass	Current EP
M Refractive Index		1.431	1.433	1.433	Current EP
@ 20degC					
M Relative Density		1.035	1.040	1.038	Current EP
@ 20/20degC					
S Sulfated ash	%	-	0.0100	0.0010	Current JP
EP					
Water Content	%	-	0.200	0.009	Current EP
Assay	%	99.80	-	99.97	Current FCC
M Acidity	-	-	-	Pass	Current FCC
M Appearance	-	-	-	Pass	Current FCC
clear & colorless					
M Distillation, IBP	°C	185.0	-	186.0	Current FCC
M Distillation, DP	°C	-	189.0	187.2	Current FCC
O Lead (Pb)	ppm	-	1.0	< 1.0	Current FCC
M Identification	-	-	-	Pass	Current FCC
matches IR scan					
S Residue on Ignition	%	-	0.0070	0.0015	Current JP
FCC					
M Specific Gravity		1.035	1.037	1.036	Current FCC
@ 25/25degC					

 DOW CHEMICAL THAILAND LTD			Ship From: Yusen Laem Chabang Sub Mft Chonburi Thailand		
Water Content	%	-	0.200	0.009	Current FCC
M Acidity	-	-	-	Pass	Current JP
M Arsenic	ppm	-	2.0	< 2.0	Current JP
M Chlorides	%	-	0.007	< 0.007	Current JP
M Distilling Range 184 - 189 degC	% vol	95	-	99	Current JP
M Glycerine (Odor)	-	-	-	Pass	Current JP
M Heavy Metals	ppm	-	5.0	< 5.0	Current JP
O Melting Point	°C	174	178	177	Current JP
M Odor	-	-	-	Pass	Current JP
S Residue on Ignition JP	%	-	0.0050	0.0015	Current JP
M Specific Gravity @ 20/20degC		1.035	1.040	1.038	Current JP
M Sulfate	%	-	0.002	< 0.002	Current JP
Water Content	%	-	0.500	0.009	Current JP
Acidity as acetic acid	%	-	0.0020	0.0002	DOWM 101370
Appearance clear, free of suspended matter	-	-	-	Pass	Visual
Chlorides	ppm	-	1.0	< 1.0	DOWM 101867
Color, Pt-Co	-	-	10	2	ASTM D5386
Dimer, Trimer & Higher Polymers	%	-	0.100	0.033	DOWM 100687
Ethylene Glycol	%	-	0.0080	< 0.0080	DOWM 100687
Diethylene Glycol	%	-	0.0080	< 0.0080	DOWM 100687
Odor practically odorless	-	-	-	Pass	Olfactory
Iron	ppm	-	0.30	0.04	ASTM E394
Note 1: Values reported for Assay, Ethylene Glycol and Diethylene Glycol under USP and for Assay under FCC are obtained using the validated equivalent Dow GC Method DOWM 100687.					
Note 2: Values reported for residue on ignition and sulfated ash under USP, EP and FCC are obtained using the JP method which is allowed per the ICH Global Harmonization Q4B and General					

 DOW CHEMICAL THAILAND LTD	Ship From: Yusen Laem Chabang Sub Mft Chonburi Thailand
Provisions and Requirements Applying to Specifications, Tests, and Assays of the Food Chemicals Codex. M:Quarterly Sample O:Annual Sample S:Semi-annual	
Plant Quality Coordinator For inquiries please contact Customer Service or local sales ® "™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow	

CERTIFICATE OF ANALYSIS

质检报告

Product : Microcare PHC
产品名称 :
CustomerOrderNo :
客户订单号 :
Batch No. : CZ3L194-2506 Shelf Life : 18 months
批号 : 保质期 :
Production Date : 2023-12-22 Expiry Date : 2025-06-22
生产日期 : 有效期至 :

ITEM	RESULT	SPECIFICATION	TEST METHOD
指标	结果	规格	方法
Appearance 外观	OK	Clear liquid 清澈液体	Visual
Chlorophenesin (%) 氯苯甘醚 (%)	20.68	19.00 - 21.00	QZ-55
Phenoxy ethanol (%) 苯氧乙醇 (%)	70.21	69.00 - 71.00	QZ-25
Phenol (ppm) 苯酚 (ppm)	0.3	0.0 - 10.0	QZ-26
Colour (APHA) 色度 (APHA)	13	0 - 100	QZ-09
RI (20°C) 折光率 (20°C)	1.5211	1.5150 - 1.5270	QZ-10
Density (20°C) (g/ml) 密度 (20°C) (g/ml)	1.135	1.115 - 1.155	QZ-08

Comment:

说明:

The information presented above is believed to be accurate. However, said information and products are offered without warranty or guarantee expect as to the composition and purity stated herein since the ultimate conditions of use and the variability of the materials treated are beyond our control. This document has been generated by computer and valid without a signature.
*If stored under optimal storage conditions in accordance with chapter 7 + 10 of material safety data sheet.

上述信息均真实准确。然而，由于我们无法控制产品最终的使用条件和处置方法等因素，因此除上述描述的成分及纯度外的其它信息我们无法保证或担保。本报告由计算机自动生成，没有签名同样有效。

*如需储存，最佳储存条件建议参照化学品安全技术说明书7+10部分。

THOR SPECIALTY CHEMICAL (ZHENJIANG) CO., LTD. 托尔专用化学品（镇江）有限公司

No. 182, Jingang Avenue, New District, Zhenjiang, Jiangsu. 中国江苏省镇江市新区金港大道182号

Tel电话: +86 511 8335 1988 Fax传真: +86 511 8336 8308

E-Mail电邮: +86 511 8335 1988 http://www.thor.com



CERTIFICATE OF ANALYSIS

Product Name: SNP-SOLUBILISANT
Product Code: CP-SOLU-01
Lot No.: TS42SOL11A
Mfg. Date: Feb 01, 2024

Analysis	Specification	Unit	Result
Appearance	Yellowish liquid	-	Yellowish liquid
pH Value (2% solution)	4.50 – 8.00	-	6.24
Viscosity (25°C)	500 – 1,000	cP	564.0
Water solubility	Soluble	-	Soluble
Total aerobic count	Not more than 5×10^2	cfu/g	< 10
Yeast & Mold	Absent	in 1 g	Absent
Enterobacteria count	Not more than 5×10^2	cfu/g	< 10
<i>S. aureus</i>	Absent	in 1 g	Absent
<i>P. aeruginosa</i>	Absent	in 1 g	Absent

Date of Analysis: Feb, 2024

Remark: STD 1

Shelf life: 24 months from manufacturing date

Quality Control Manager

The information contained herein is based on the best of our knowledge and is believed to be accurate and reliable. However, Specialty Natural Products cannot guarantee how the products will perform in combination with other ingredients or in the user's process. Users should conduct their own tests to evaluate the suitability of our products for their own application and the legal status for their intended use of the product. Therefore, no representations, guarantees or warranties are made as to the suitability of the products for specific applications. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDED, BUT NO LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.

CERTIFICATION OF ANALYSIS

BUTTERFLY PEA EXTRACT

Product Name : **BUTTERFLY PEA EXTRACT**
Scientific Name : *Clitoria ternatea* Linn.
Manufacturing Date : **December 2023**
Reevaluation Date : **December 2025**
Batch Number : **202312-CT**

Test	Specifications	Results
Appearance	Natural Color	Conforms
Odor	Specific	Conforms
pH (Pure Product)	3.50-7.00 (Microcomputer pH-Vision 6071)	4.89
Viscosity	1.00-50.00 (Brookfield DV-II+Pro Viscometer, Spindle# 2, Speed 100, 25 °C)	27.1
Yeast & Mold	< 100 CFU/g (TIS 152 / 1996)	Conforms
Total Plate Count	< 100 CFU/g (TIS 152 / 1996)	Conforms

Approval by P.V.

Quality Assurance Manager



Certificate of Analysis

AnaGain™

AnaGain™ is an aqueous extract from Pisum sativum sprouts, which improves hair growth by reducing telogen hair and increasing hair in the anagen phase.

Composition

Pisum sativum sprout extract

dry matter	0.5%
Phenoxyethanol	1.0%
Sodium benzoate	0.5%
Water	ad 100%

INCI (EU/PCPC) Declaration

Pisum Sativum (Pea) Sprout Extract (and) Phenoxyethanol (and) Sodium Benzoate (and) Aqua/Water

Lot. Nr. 0845-197 Retested lots are indicated with R1 or R2 in the Lot. Nr. field.		Expiration date: 10/2025
Storage: 25°C, in closed containers at a dark place		Manufacturing date: 10/2023
		Retest date: ---
Analytics	Analysis	Specification:
Consistency	conforms	liquid
Appearance	conforms	yellow, transparent
Odor	conforms	characteristic
pH-Value	4.2	4.0 - 6.0
Density (20°C)	1.0059 g/mL	1.000 - 1.015g/mL
Bacteriology		
Total CFU	<100 CFU/g	<100 CFU/g
Yeast / Mould	<100 CFU/g	<100 CFU/g
Pseudomonas aeruginosa	negative	negative in 1g
E. coli / Enterococcus	negative	negative in 1g

Country of Origin: Switzerland

Signature: This certificate of analysis has been generated electronically and is valid without signature.

CERTIFICATION OF ANALYSIS

MULBERRY EXTRACT

Product Name : **MULBERRY EXTRACT**
Scientific Name : *Morus alba* .
Manufacturing Date : **December 2023**
Reevaluation Date : **December 2025**
Batch Number : **202312-MA**

Test	Specifications	Results
Appearance	Clear red brown Liquid	Conforms
Odor	Specific	Conforms
pH (Pure Product)	3.50-7.00 (Microcomputer pH-Vision 6071)	5.48
Viscosity	1.00-50.00 (Brookfield DV-II+Pro Viscometer, Spindle# 2, Speed 100, 25 °C)	27.0
Yeast & Mold	< 100 CFU/g (TIS 152 / 1996)	Conforms
Total Plate Count	< 100 CFU/g (TIS 152 / 1996)	Conforms

Approval by P.V.

Quality Assurance Manager



COMPOSITION	Matières premières / Raw materials	Solvants
Ginseng (<i>Panax ginseng</i>).....	Racine / Root	Propylène glycol / Propylene glycol Eau / Water

	Proceedings	Specifications	Analyse / Analysis	Result.
CARACTÉRISTIQUES ORGANOLEPTIQUES / ORGANOLEPTIC CHARACTERISTICS				
Aspect Sight	GT001	Liquide Liquid	Liquide Liquid	Conforme OK
Couleur Color	GT002	Jaune à jaune brun Yellow to brown yellow	Jaune à jaune brun Yellow to brown yellow	Conforme OK
Odeur Odor	GT003	Caractéristique Characteristic	Caractéristique Characteristic	Conforme OK
CARACTÉRISTIQUES PHYSICO-CHIMIQUES / PHYSICAL & CHEMICAL CHARACTERISTICS				
Solubilité 10% dans l'eau Solubility 10% in water	GT004	Soluble avec opalescence Soluble with opalescence	Soluble avec opalescence Soluble with opalescence	Conforme OK
pH (direct)	GT005	5.5 - 6.5	6.1	Conforme OK
Matière sèche Dry matter	GT006	0.6 - 1.5 %	0.8 %	Conforme OK
Indice de réfraction Refraction index	GT007	1.386 - 1.391	1.390	Conforme OK
Densité Specific gravity	GT008	1.040 - 1.045	1.041	Conforme OK
QUANTIFICATIONS / QUANTIFICATIONS				
Propylène glycol Propylene glycol	GT022	47.5 - 52.5 %	51.8 %	Conforme OK
Métaux lourds (*) Heavy metal (*)	Ph. Eur. 2.4.8 proc C	≤ 10 ppm	ND	—
IDENTIFICATION / IDENTIFICATION				
Identification CCM : acides aminés Identification TLC : amino acids	GT360	Conforme Conform	Conforme Conform	Conforme OK
Identification CCM : ginsénosides Rg1 & Rb1 Identification TLC : ginsenosids Rg1 & Rb1	GT360	Conforme Conform	Conforme Conform	Conforme OK
ANALYSES MICROBIOLOGIQUES / MICROBIOLOGICAL ANALYSIS				
Dénombrement des bactéries aérobies mésophiles Enumeration of mesophilic aerobic bacteria	ISO 21149	≤ 100 ufc/mL - cfu/mL	<10 ufc/mL - cfu/mL	Conforme OK
Dénombrement des levures et moisissures Enumeration of yeasts and moulds	ISO 16212	≤ 100 ufc/mL - cfu/mL	<10 ufc/mL - cfu/mL	Conforme OK
Détection des enterobactéries Detection of enterobacteria	ISO 18415	Absence	Absence	Conforme OK