



TECHNICAL DATA PACKAGE

CALIFORNIAN POPPY EXTRACT 2%

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PRODUCT SPECIFICATION SHEET

IDENTIFICATION			
NAME	Californian Poppy Extract 2%		
BOTANICAL NAME	<i>Eschscholzia californica Cham.</i>		
PLANT PART(S) USED	Aerial Part		
SHELF LIFE	3 Years / 36 Months		
SOLVENT USED	Ethanol and Water		
EXTRACTION RATIO	3-5:1		
COUNTRY OF ORIGIN OF PRODUCT	Spain		
COUNTRY OF ORIGIN OF BIOMASS	USA		
EXCIPIENTS	Maltodextrin and Silicum dioxide		
PHYSICAL & CHEMICAL ANALYSIS			
<u>PARAMETER</u>		<u>SPECIFICATION</u>	<u>METHODS</u>
1	APPEARANCE	Ochre coloured powder	Visual
2	TASTE & ODOUR	Characteristic	Organoleptic
3	IDENTIFICATION	Complies	Fr.Ph. X ed.
4	TOTAL ASH	NMT 30,0%	USP <561>
5	LOSS ON DRYING	NMT 5,0% (m/m)	USP <731>
6	DENSITY	BULK DENSITY	NLT 0,30g/ml
		TAPPED DENSITY	NLT 0,40g/ml
7	PARTICLE SIZE (Mesh)	NLT 90% (w/w) < 180 mesh	USP <786>
8	ASSAY	Total flavonoids expressed as Rutin (dry basis) (%w/w)	NLT 2,0% HPLC
MICROBIOLOGICAL CONTROL			
<u>PARAMETER</u>		<u>SPECIFICATION</u>	<u>METHODS</u>
	TOTAL AEROBIC MICROBIAL COUNT (TAMC)	NMT 10000 CFU/g	USP<61>
	TOTAL COMBINED YEASTS & MOULDS COUNT (TYMC)	NMT 100 CFU/g	USP<61>
	E. COLI	Absent/g	USP<62>
	SALMONELLA	Absent/25g	USP<62>
	BILE TOLERANT GRAM-NEGATIVE BACTERIA	NMT 100 CFU/g	USP<62>
CONTAMINANTS			
<u>PARAMETER</u>		<u>SPECIFICATION</u>	<u>METHODS</u>
HEAVY METALS	LEAD (Pb)	NMT 3,0ppm	I.C.P. – MS (Raw Material)
	CADMIUM (Cd)	NMT 1,0ppm	I.C.P. – MS (Raw Material)
	MERCURY (Hg)	NMT 0,1ppm	I.C.P. – MS (Raw Material)
	ARSENIC (As)	NMT 2,0ppm	I.C.P. – MS (Raw Material)
AFLATOXINS	B1	NMT 2,0 ppb	Raw material-Eur.Ph.ed.2.8.18
	B1+B2+G1+G2	NMT 4,0 ppb	Raw material-Eur.Ph.ed.2.8.18
PESTICIDES		Complies USP <561>	GC-MS/LC-MS
RESIDUAL SOLVENTS	Ethanol	NMT 5000ppm	GC (Acc.CHMP/ICH/82260/2006 guidelines)
STORAGE CONDITIONS: Store in a dry place and keep away from strong light and heat.			
MANUFACTURING SITE: THIS MATERIAL HAS BEEN CUSTOM MADE AND PROCESSED AT POLÍGONO INDUSTRIAL DE BUÑUEL CALLE B, Nº5 BUÑUEL (NAVARRA), SPAIN. TO MEET SUANFARMA SPECIFICACIONES			
			José Manuel Crespo Quality Head - Nutra Division- SUANFARMA



ALLERGEN STATEMENT

We, Suanfarma, hereby declare the absence or presence of each allergen or intolerance according to the major Food Allergens specified in the US Federal Law of Food Allergen Labeling and Consumer Protection Act of 2004 (FALCPA) and EU Directive 2003/89/CE amending EU Directive 2000/13/CE in the table below for **CALIFORNIAN POPPY EXTRACT 2%**:

SUBSTANCES OR PRODUCTS CAUSING ALLERGIES OR INTOLERANCES as per Annex II of FIC regulation	Direct incorporation as a base raw material or in derivative form (including the carriers, the additives, and the processing aids)		Presence on the production line		Presence in the productions workshop		Presence on the production factory	
	Yes (precise nature)	No	Yes (precise nature)	No	Yes (precise nature)	No	Yes (precise nature)	No
Cereals containing gluten (1) and products thereof		X		X		X		X
Crustaceans and products thereof		X		X		X		X
Eggs and products thereof		X		X		X		X
Fish and products thereof		X		X		X		X
Peanuts and products thereof		X		X		X		X
Soybeans and products thereof		X	X (Soy Isoflavones extract)		X (Soy Isoflavones extract)		X (Soy Isoflavones extract)	
Milk and products thereof (including lactose)		X		X		X		X
Nuts (2) and products thereof		X		X		X		X
Celery and products thereof		X		X		X		X
Mustard and products thereof		X		X		X		X
Sesame seeds and product thereof		X		X		X		X
Suphur dioxide and sulphites at concentrations of more than 10mg/kg or 10mg/l expressed as SO ₂		X		X		X		X
Lupin and products thereof		X		X		X		X
Mollusc and products thereof		X		X		X		X

NOTES TO THE TABLE:

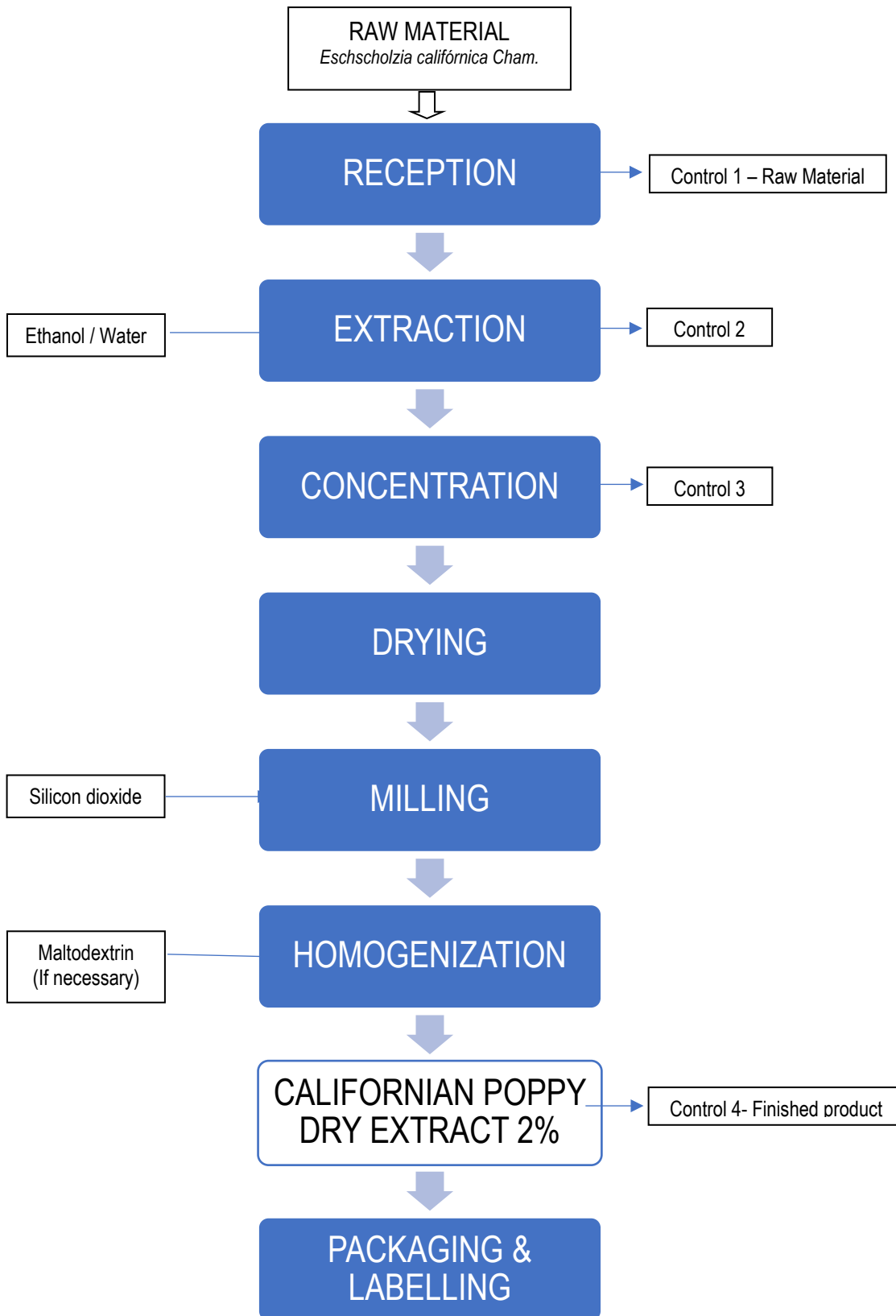
- (1) Cereals containing gluten, namely: wheat, rye, barley, oats, spelt, kamut or their hybridized strains, and products thereof, except:
 - a. Wheat based glucose syrups including dextrose.
 - b. Wheat based maltodextrin.
 - c. Glucose syrups based on barley.
 - d. Cereals used for making alcoholic distillates including ethyl alcohol of agriculture origin.
- (2) Namely, almonds (*Amygdalus communis* L.), hazelnuts (*Corylus avellana*), walnuts (*Junglans regia*), cashews (*Anacardium occidentale*), pecan nuts (*Carya illinoensis* (Wangenh.) K. Koch), Brazil nuts (*Bertholletia excelsa*), pistachio nuts (*Pistacia vera*), macadamia or Queensland nuts (*Macadamia ternifolia*), and products thereof, except for nuts used for making alcoholic distillates including ethyl alcohol of agricultural origin.



José Manuel Crespo
Quality Head – Nutra Division
SUANFARMA

MANUFACTURING PROCESS FLOW CHART

Product Name: CALIFORNIAN POPPY EXTRACT 2%



SAFETY DATA SHEET
(According to Regulation 453/2010)

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

1.1 Product Identifier:

Product Name: CALIFORNIAN POPPY EXTRACT 2%
Botanical Name: *Eschscholzia californica Cham.*

1.2 Supplier details:

Supplier Name: Suanfarma, Inc.
17-09 Zink Place, Unit 7, Fair Lawn,
NJ 07410, USA
Phone: +1-201-343-1188
Fax: +1-201-343-1102
E-mail: adminus@suanfarma.com

1.3 Emergency number:

CHEMTREC (24hr Access) 800-424-9300
International CHEMTREC, call: +1-703-527-3887

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification

None, if it is used as the intended purpose.

2.2 Labelling

None, if it is used as the intended purpose.

2.3 Other hazards

None, if it is used as the intended purpose.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Component

Substance	<i>Eschscholzia californica Cham.</i>	Maltodextrin	Silicon dioxide
CAS	90028-46-9	9050-36-6	112945-53-5 7631-86-9
EINECS Number	289-837-2	232-940-4	231-545-4

SAFETY DATA SHEET
(According to Regulation 453/2010)**SECTION 4: PRECAUTIONS FOR SAFE HANDLING AND USE****4.1 First aid measures:**

General advice	In case of adverse health effects seek medical advice.
If inhaled	After prolonged or massive inhalation of the powder, remove from the exposure to fresh air. Get medical attention for any breathing difficulty.
In case of skin contact	Rinse with running water.
In case of eye contact	Rinse immediately with plenty of running water (for 10 minutes). Get medical attention, it is necessary.
If swallowed	After massive ingestion, rinse the mouth. Drink 1-2 glasses of water, and get medical attention, it is necessary.

4.2 Most important symptoms and effects (acute and delayed):

No data available.

4.3 Indication of any immediate medical attention and special treatment needed:

No data available.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Suitable extinguishing media:	Water spray jet. Extinguishing powder.
Special hazards:	Carbon monoxide may be formed during combustion.
Special protective equipment for fire fighters:	Wear self- contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURE

Personal precautions:	Avoid dust formation.
Environmental precautions	Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil
Methods and material for containment and cleaning up:	Remove mechanically

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Minimize dust formation and accumulation. Use adequate ventilation. Avoid open flames and sources of ignition.
Storage Conditions:	Store in a tightly sealed container. Store in a cool, dry well-ventilated place in closed original container at recommended temperature <30°C and away from heat and direct sun light.
Specific end use(s)	Pharmaceutical, Food supplements and cosmetic industry.

SAFETY DATA SHEET
(According to Regulation 453/2010)

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

Additional information for system design	Ensure good ventilation/suction at the workplace
Respiratory protection	Use precaution to avoid inhalation. In absence of suitable containment facilities, a dust mask should be worn when handling small quantities of material. For larger quantities, a dust respirator is recommended.
Hand protection	Wear protective gloves
Eye protection	Wear safety glasses
General protection and hygiene measures	immediately remove soiled or soaked clothing. Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

Physical state:	Solid
Appearance:	Powder
Odor:	Characteristic
Color:	Brown
pH:	N.A.
Boiling point:	N.A.
Melting point:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Flammable limits:	N.A.
Self-flaming:	N.A.
Explosion limits:	N.A.
Combustion properties:	N.A.
Vapor pressure:	N.A.
Refractive Index:	N.A.
Density:	Not specified.
Solubility:	N.A.
Sharing coefficient:	N.A.
Viscosity	N.A.
Loss on drying	NMT 5%

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity:	This product presents no significant reactivity hazard.
Conditions to avoid:	Avoid temperatures over 30°C, open flames and sources of ignition. Keep away from heat and direct sun light.
Hazardous decomposition products:	Carbon monoxide may be formed during combustion.

SAFETY DATA SHEET
(According to Regulation 453/2010)

SECTION 11: HEALTH HAZARDOUS

Information on toxicological effects
General toxicological information No data available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: No data available.
Persistence and degradability: No data available.
Bio accumulative potential: No data available.
Mobility in soil: No data available.
PBT and vPvB assessment: No data available.
Other adverse effects: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Product Collection and delivery to recycling enterprise or other official elimination institution.
Contaminated packing: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

UN number: Not applicable.
UN proper shipping name: Not applicable.
Transport hazards class: Not applicable.
Packing group: Not applicable.
Environmental hazards: Does not meet classification as hazardous for environment.
Special precautions for users: Not hazardous according to RID/ADR, GGVS/GGVE, ADNR, IMDG, ICAO-TI/IATA-DGR.
Transport in bulk (Annex II of Marpol): Not applicable.
Transport in bulk (IBC Code): Not applicable.

SAFETY DATA SHEET
(According to Regulation 453/2010)**SECTION 15: REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance**

EU regulations:

- Contains no substances with annex XVII restrictions
- Contains no substances on the REACH Candidate list
- Contains no REACH Annex XIV substances

Chemical safety assessment

A Chemical safety assessment has not been carried out for the mixture.

SECTION 16: OTHER INFORMATION

The information contained herein is based on the current state of knowledge and describes the product from the standpoint of appropriate precautions for use, handling, transport, and storage. There is no guarantee of product properties.

This information above is believed to be accurate and represents the best information currently available to us.

The user is responsible for verifying the data on the present MSDS and determining whether the product is suitable for your particular purpose and assume all risk of use, handling, and disposal of waste.

This information relates only to the product and does not relate to the combinations that can be made from this or processes that can be included.

ADDITIONAL INFORMATION

We, SUANFARMA, hereby declare that CALIFORNIAN POPPY EXTRACT 2% is manufactured in accordance with the following guidelines:

- Botanical source: *Eschscholzia californica* Cham.
- The above material is manufactured in Spain.
- The biomass used is from USA.
- No animal derived products have been used in the manufacture of the above material. The product does not enter in contact with animal derived material. For these reasons this material is free from components which can cause Bovine Spongiform Encephalopathy (BSE) or Transmissible Spongiform encephalopathy (TSE).
- The above material has not been genetically modified or exposed to genetically modified organisms during the production process and is therefore GMO free (according to EU Regulation 1829/2003 & 1830/2003).
- The above material complies with the pesticide limits set forth by USP<561>.
- Only the following organic solvents are used in the manufacturing process: Ethanol.
- The above material complies with Aflatoxin limits fixed by USP.
- The above material complies with California Proposition 65 Compliance and is safe for human consumption.
- The above material and its constituents are naturally free of products containing gluten.
- The above material and its constituents is free of Melamine and PCB's.
- The above material is suitable for vegetarian and vegan consumption.
- This material has not been tested on animals.
- The above material does not contain any ingredient specified in EU Directive 2003/89/CE amending EU Directive 2000/13/CE: wheat, rye, barley, oat, spelt, kamut, crustacean, egg, fish, peanut, soybean, milk, nuts (almonds, hazelnuts, walnuts, cashew, pecan nuts, Brazil nuts, pistachio nuts, macadamia), celery, mustard, sesame seeds, lupin, molluscs and products made thereof.
- The above material has been affirmed as GRAS by FDA, when used within the limitations set forth in 21 CFR 172.510.
- The above material has not been irradiated per 7CFR 205.105(f) requirements with understanding that "irradiation" shall be defined as outlined in 21CFR 179.26.
- The above material and its raw material have not been treated with ethylene oxide (ETO) or any other chemical sterilization agent.
- At no point in the process is the above material is manufactured, handled, or comes in contact with sewage sludge, as defined in 7 CFR 205.105(g).
- The above material neither contains nor comes in contact with banned substances listed by NSF, NFL, and WADA.
- The above material is Kosher certified.
- The above material is Halal suitable but NOT Halal certified.

The CALIFORNIAN POPPY EXTRACT 2% is composed by the following:

- 50%-80% Native Extract
- 20%-50% Maltodextrin (Characteristics: Corn, Food grade, Geographical origin Europe)
- 0%-2% Silicon Dioxide (Characteristics: Food grade, geographical origin Europe)

Typical nutritional data for the above material are as follows:

PARAMETER	RESULT	UNITS
Energy	50	kCal/100g
Protein	< 15	g/100g
Fat	< 6	g/100g
Carbohydrates	< 90	g/100g



José M. Crespo
Quality Head – Nutra Division
SUANFARMA

Certificate Issued To:
SUANFARMA, Inc.
17-09 Zink Place, Unit 7
Fair Lawn, NJ 07410-2018
USA

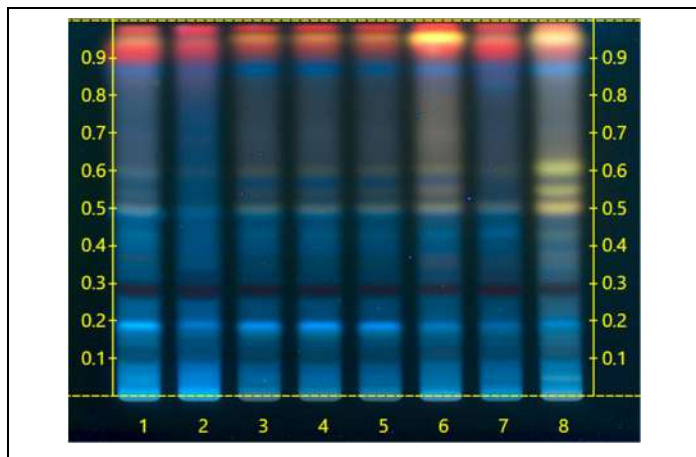


Exclusive Distribution by:
SUANFARMA
SUANFARMA
17-09 Zink Place - Unit 7
Fair Lawn, NJ 07410, USA
Tel. +1-201-343-1188
www.suanfarmausa.com

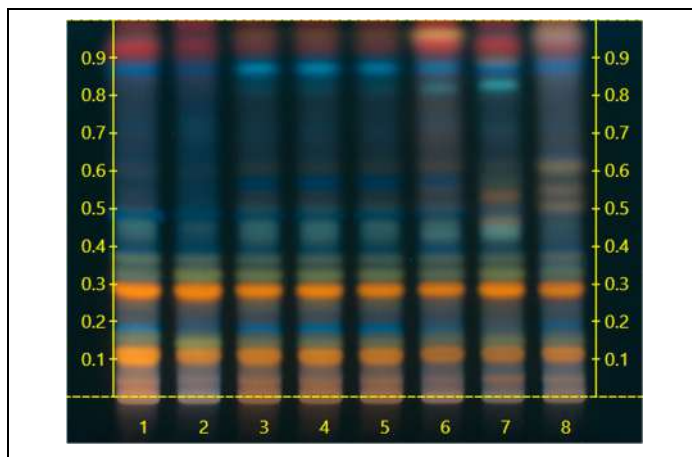
Work performed at:
Alkemist Labs
12661 Hoover Street
Garden Grove, CA 92841
714-754-HERB (4372)
714-668-9972 (FAX)
Sales@Alkemist.com
www.Alkemist.com

Certificate of Analysis: CALIFORNIAN POPPY EXTRACT 2% (058/2022)
High Performance Thin-Layer Chromatography with Photo-Documentation

1



2



Company Name: SUANFARMA, Inc.
Title: CALIFORNIAN POPPY EXTRACT 2%
Plant Part: aerial part
Sample Received: 05/26/22
Sample Packaging: Foil Pouch
Form of Botanical: powdered extract
Appearance: Fine Powder
Source Location: Select Botanical
Lot Number: (058/2022) → Lane 6(3µl)
Sample: 22146PHV_1
Latin Name: *Eschscholzia californica* Cham. [Papaveraceae]
Reference Sample: Lane 1(3µl) (DH06314HLIT1), Lane 2(3µl) (DH20105BMX2) *Eschscholzia californica* (herb); Lane 7(3µl) (DH10013GOLD1), Lane 8(3µl) (DH17503MTG) *Eschscholzia californica* (entire); held at Alkemist Labs, Garden Grove, CA.
Analyst: J.Mares, K.Chopra, K.Montoya, K.Tran, M.Levine, N.Carson, N.Hoang, N.Afendikova, P.Hoang, S. Kabbaj, S.Sudberg, T.Louis, D.Robinson 177171
Sample Preparation: 0.3g+3mL 70% grain Ethanol, sonicate/heat at 50° C for 30 min.
Stationary Phase: Silica gel 60, HPTLC plates
Mobile Phase: ethyl acetate: Methyl Ethyl Ketone: formic acid: water [5/3/1/1]
Detection: (1) UV 366 nm
(2) Natural Product + Polyethylene Glycol, 366nm (Reich, E., 2007)
Reference Source: Plant Drug Analysis, Wagner, H., 1996
IDT-SOP-72-01

Comments & Conclusions: Lane 6 is the test sample CALIFORNIAN POPPY EXTRACT 2% (058/2022). Lanes 1, 2, 7, 8, are the reference samples used for comparison. This test sample, CALIFORNIAN POPPY EXTRACT 2% (058/2022) is consistent with the chromatographic profile of the reference samples of *Eschscholzia californica*, used above. **This test sample CALIFORNIAN POPPY EXTRACT 2% (058/2022) has characteristics of *Eschscholzia californica* aerial part.**

NOTE: The above conclusion may be a function of the natural variance found in botanicals &/or the extraction process used to create specific extracts. The growing and drying conditions, age, seasonal variations, geographic location, extraction solvents, etc. all play a role in the phytochemical fingerprint of botanicals as well as their extracts; hence, chromatographic variations are expected.

Examined, Reviewed & Authorized by: Khanh N Tran, HPTLC, R&D Supervisor, Alkemist Labs

Report Date: 05/31/22

ISO/IEC 17025



Note: Any unidentified lanes in the above chromatograms are confidential and may represent internal studies or other test samples not related to 058/2022. This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report is for the exclusive use of the party who requested the report and not for public dissemination or use by third parties, including for promotional purposes, without the prior written permission of Alkemist Labs, Inc. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented or abstracted in any manner. Any violation of these conditions renders the report and its results void. © 2022 Alkemist Labs, Inc. All Rights Reserved

Nutri Analytical Testing Laboratories

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Website: www.nutrianalytical.com

Laboratory Report

Suan Farma

17-09 Zinc Place, Unit 6&7

Fair Lawn, NJ 07410, USA

Email: josecrespo@suanfarma.com

Attn: Jose Crespo

Received Date: 06/21/2022

Report Date: 07/13/2022

Client Sample Description: Californian Poppy Extract 2% Lot #058/2022

Test ID #: 202206035-5

Analyses	Claim	Result
Rutin		1.03%
Other Rutins		1.02%
Total Flavonoids (as Rutins)	>2%	2.05%

Method: UHPLC

Nutri Analytical Testing Laboratories



Lab. Manager: Ling Zhang