

# TECHNICAL DATA PACKAGE

## LICORICE ROOT EXTRACT DGL 3%

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PRODUCT SPECIFICATION SHEET **REVISION 1.2019** 

IDENTIFICATION

LICORICE ROOT EXTRACT DGL3% NAME

SYNONYMS Glycyrrhiza Glabra Extract PRODUCT CODE LDGL3

FRESH/DRY Drv SHELF LIFE 36 Months PLANT PART(S) USED Root **EXTRACTION RATIO** 8:1

SOLVENT USED Water, Methanol **EXCIPIENT USED** Dextrin (20% -- 40%) India

COUNTRY OF ORIGIN

PHYSICAL & CHEMICAL ANALYSIS

**PARAMETER SPECIFICATION METHODS** 

**APPEARANCE** Powder Organoleptic COLOR Light brown to dark brown Organoleptic **ODOR** Characteristic Organoleptic

2. IDENTIFICATION To pass test In-house (TLC)

3. LOSS ON DRYING (% w/w) NMT 10.0% USP <921>

4. ASH CONTENT (% w/w) NMT 10.0% USP <561>

ACID INSOLUBLE ASH (% w/w) NMT 3.0% USP <561> 5.

4.5 - 6.5USP <791> pH of 5% w/v solution

7 DENSITY

BULK 0.20 - 0.60 g/mLUSP <616> USP <616> **TAPPED** 0.35 - 0.80 g/mL

PARTICLE SIZE NLT 99.0% through 30 mesh USP <786> 8.

RESIDUAL SOLVENTS 9.

METHANOL NMT 50 ppm USP <467>

PESTICIDE RESIDUE ANALYSIS To Pass Test USP <561>

HEAVY METALS NMT 10 ppm USP <231> 11. AAS/ICP-MS LEAD NMT 3.0 ppm AAS/ICP-MS ARSENIC

NMT 2.0 ppm CADMIUM AAS/ICP-MS NMT 2.0 ppm MERCURY NMT 0.1 ppm AAS/ICP-MS

12. AFLATOXINS (B1 + B2 + G1 + G2) USP <561> NMT 5 ppb

PHYTOCHEMICAL ANALYSIS

Pseudomonas aeruginosa

NMT 3.0% w/w on d/b In-house (HPLC) Glycyrrhizin (% w/w)

MICROBIOLOGY CONTROL

Total Viable Aerobic Count NMT 3,000 cfu/g USFDA-BAM Total Fungal Count NMT 100 fs/g USFDA-BAM Bile Tolerant Gram-Negative Bacteria NMT 100 org/g USFDA-BAM NMT 3/g Coliforms AOAC Escherichia Coli (1 g) Absent USP Salmonella Species (10 g) USP Absent USP Staphylococcus aureus Absent

Absent

STORAGE CONDITIONS: PRESERVE IN TIGHTLY-SEALED CONTAINERS UNDER COOL, DRY CONDITIONS. AVOID EXCESSIVE EXPOSURE TO SUNLIGHT. STORE AT ROOM TEMPERATURE.

MANUFACTURING SITE: THIS MATERIAL HAS BEEN CUSTOM MADE AND PROCESSED AT 107-109 KIADB, III PHASE INDUSTRIAL AREA, MALUR - 563160, KOLAR DISTRICT, KARNATAKA, INDIA TO MEET SUAN FARMA, INC. SPECIFICATIONS.

> <u>Julianna Ghedid</u> Julianna Chedid, QA/QC Assistant DATE PRINTED: February 12, 2020



### ALLERGEN STATEMENT

We, Suan Farma, Inc., hereby declare that Licorice Root Extract DGL 3% (product code: LDGL3) does not contain as an ingredient and is not manufactured on processing equipment that comes in contact with any of the commonly recognized allergens including, but not limited to the following:

- Peanuts (including peanut oil)
- o Cashew nut (including oil)
- Walnut (including oil)
- Hazelnut (including oil)
- o Brazil walnut (including oil)
- Pecan nut (including oil)
- Macadamia nut (including oil)
- o Pistachio nut (including oil)
- Pine kernel (including oil)
- Almond (including oil)
- Celery and derived products
- Mustard and derived products
- Lupin (lat. lupinus) and derived products
- Sesame Seeds
- Milk and derived products
- o Eggs and derived products
- Fish and derived products
- o Shellfish and derived products
- Soy and derived products
- Gluten origin material
- o Sulphites

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Regards,

Julianna Chedid

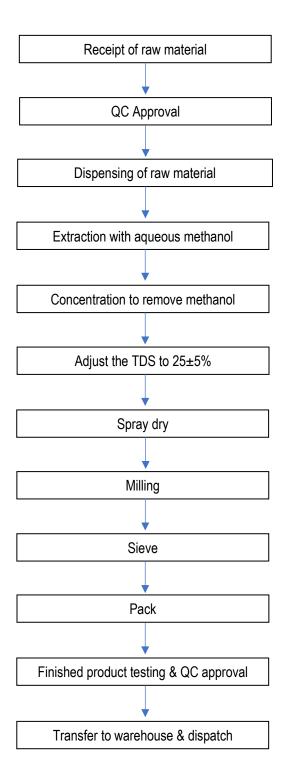
QA/QC Assistant February 2020



## MANUFACTURING PROCESS FLOW CHART

**Product Name:** Licorice Root Extract DGL 3%

**Product Code: LDGL3** 





**REVISION 01.2020** 

### SECTION 1: PRODUCT & COMPANY IDENTIFICATION

1.1 Identification of the substance or preparation:

Product name: LICORICE ROOT EXTRACT DGL 3%

Botanical Name: Glycyrrhiza glabra

Common Name: Licorice

1.2 Supplier information:

**Supplier Name:** Suan Farma, Inc.

17-09 Zink Place, Unit 7 Fair Lawn, NJ 07410

Phone: 201-343-1188 FAX: 201-343-1102

E-mail: adminus@suanfarma.com

1.3 Emergency telephone number:

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

## **SECTION 2: HAZARD(S) IDENTIFICATION**

2.1 Routes of entry:

2.1.1 Eye contact: Mild irritation may occur
2.1.2 Skin contact: Mild irritation may occur

2.1.3 Ingestion: Not known 2.1.4 Inhalation: Irritating

2.2 Hazard statement(s): Globally harmonized





2.3 Pictograms:

**2.4 Precautionary statements:** Keep away from heat, sparks, open flames, hot surfaces. No smoking.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Ingredients:** Powdered extract of licorice dried roots

**3.2 Hazardous components:** None

## **SECTION 4: FIRST AID MEASURES**

**4.1 General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**4.2 Eyes:** Flush with plenty of water or eye wash, consult a physician.

**4.3 Skin:** Wash off with soap and water – seek medical attention if irritation persists.

**4.4 Ingestion:** Seek medical advice.

**4.5 Inhalation:** If breathed in, move person to fresh air. Consult a physician.



### SECTION 5: FIRE FIGHTING MEASURES

5.1 Flammability of the product: Non-flammable 5.2 Flash points: Not applicable 5.3 Flammable limits: Not applicable 5.4 Products of combustion: Not available Not available 5.5 Fire hazard in presence of various substances: 5.6 Explosion hazards in presence of various substances: Not available 5.7 Risks of explosion of the product in presence of mechanical impact: Not available 5.8 Risks of explosion of the product in presence of static discharge: Not available 5.9 Fire Fighting Media and Instructions: Not available

**5.9.1 Small Fire:** Use dry chemical powder.

**5.9.2 Large Fire:** Use water spray, fog, or foam. Do not use

water jet.

5.10 Special remarks on fire hazards: Not available5.11 Special remarks on explosion hazards: Not available

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Small spill

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

#### 6.2 Large spill

Clean area with absorbent substrata; finish cleaning by spreading water on the contaminated surface and with soap.

### SECTION 7: HANDLING AND STORAGE

7.1 Precautions:

7.1.1 Safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor. Wash hands

thoroughly after handling. Keep away from fire and open flames. Do not overheat.

(Requirement for storage Areas and Containers) Stora in a scool dry location in a

**7.1.2 Storage:** (Requirement for storage Areas and Containers). Store in a cool, dry location, in a

sealed container. Protect from light.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Engineering controls:** No special ventilation requirements

Personal protection

(Work/hygiene practice): Normal work and hygiene practices for handling non-hazardous material







8.2 Eye:Safety glasses should be worn.8.3 Skin/body:Aprons, Gloves should be worn.

**8.4 Respiratory:** Not needed under normal conditions of use. **8.5 Other:** Evaluate need based on application.

8.6 Slip proof shoes may be worn where spills may occur.

8.7 Personal protection in case of large spill:



Safety goggles. Apron. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product, consult a specialist before handling this product.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Physical State:** Powder

**9.2 Appearance:** Light brown to dark brown

9.3 Odor: Characteristic
9.4 Odor Threshold: No data available
9.5 pH: Not applicable
9.6 Evaporation Rate: No data available
9.7 Melting Point: No data available
9.8 Freezing Point: No data available
9.9 Boiling Point: No data available

9.10 Flash Point: NA

9.11 Auto-ignition Temperature:
9.12 Decomposition Temperature:
9.13 Flammability (solid, gas):
9.14 Vapor Pressure:
9.15 Relative Vapor Density at 20°C:
9.16 Relative Density:
No data available

9.17 Specific Gravity: NA

9.18 Solubility: Soluble in water9.19 Viscosity: No data available

## **SECTION 10: STABILITY AND REACTIVITY**

**10.1 Storage stability:** Stable under recommended storage conditions

**10.2 Incompatibility (Materials to avoid):** Steel, aluminum, acidic or alkaline media, oxidizing agents.

**10.3 Conditions to avoid:**Do not overheat. Reduce heat if product smokes.

**10.4 Corrosivity:** Not available.

10.5 Hazardous decomposition product: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

**10.6 Hazardous polymerization:** Does not occur.

## **SECTION 11: TOXICOLOGY INFORMATION**

11.1 Toxicity in animals:

No toxicity has been reported

11.2 Chronic effects on humans:Not available11.3 Other toxic effects on humans:Not available11.4 Special remarks on chronic effects on humans:Not available

11.5 Skin:Mild irritation may occur11.6 Eyes:Mild irritation may occur

**11.7 Ingestion:**Not available **11.8 Inhalation:**Irritation



### SECTION 12: ECOLOGICAL INFORMATION

**12.1 Ecotoxicity:** No data available **12.2 BOD 5 and COD:** Not available

**12.3 Biodegradation:** Expected to be ultimately biodegradable.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste Disposable method:** Dispose of according to local, state and federal regulations.

### SECTION 14: TRANSPORT INFORMATION

14.1 ADR/RID Not available14.2 IMDG Not available14.3 IATA Not available

## **SECTION 15: REGULATORY INFORMATION**

15.1 Risk phrases (R):Not applicable15.2 Safety phrases (S):Not applicable15.3 WHMIS classification of product:Not applicable

### SECTION 16: OTHER INFORMATION

#### Further information

This information is based upon the present state of our knowledge. This SDS had been complied and is solely intended for this product.

#### Notice to reader

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this Safety Data Sheet or in combination with any other product or process is the responsibility of the user.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information and we assume no liability resulting from its use, users should make their own investigations to determine the suitability of the information for their purposes. In no way shall the company be liable for any claims, losses. or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.



### ADDITIONAL INFORMATION

We, Suan Farma, Inc., hereby declare that Licorice Root Extract DGL 3% (product code: LDGL3) is manufactured in accordance with the following guidelines:

- No animal derived products have been used in the manufacture of the above extract, making this material free from components which can cause Bovine Spongiform Encephalopathy (BSE) or Transmissible Spongiform Encephalopathy (TSE).
- The above extract has not been genetically modified or exposed to genetically modified organisms during the production process and is therefore GMO free.
- Licorice Root Extract DGL 3% and its constituents are naturally free of products containing gluten (i.e., wheat, rye, barley, triticale, etc.).
- The above extract has not been irradiated per 7 CFR 205.105(f) requirements with the understanding that "irradiation" shall be defined as outlined in 21 CFR 179.26.
- The above extract has not been treated with ETO (ethylene oxide) or any other chemical sterilizing agent.
- The above extract is suitable for vegetarian and vegan consumption.
- At no point in the process is the above extract derived from, produced using, or handled with sewage sludge, as defined in 7 CFR 205.105(g).

Typical nutritional data for the above extract is as follows:

Parameter	Result	Unit	
Total Energy	150.0	kCal/100g	
Moisture	6.14	%	
Total Carbohydrates	20.50	%	
<i>Sodiu</i> m	70.50	%	
Protein	5.21	%	
Saturated Fatty Acids	0.50	%	
Monounsaturated Fatty Acids	0.65	%	
Fiber	0.25	%	

Regards.

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Julianna Chedid QA/QC Assistant February 2020