

Feverfew Extract Parthenolide o.8% HPLC Lot# CXBJ-A-03193





Items Included:

Botanical Identification Report • Macroscopic Identification Report • Chemical Identification Report

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PRODUCT INFORMATION

Common Name

Feverfew

Latin Name

Tanacetum parthenium

Harvest Location Part Used

Aerial

Description Lot#

Feverfew Extract o.8% Parthenolide HPLC

CXBJ-A-03193 Report Date

04/24/2017

Botanical Identification

ID Reference

Flora of China

REFERENCE OR BOTANICAL VOUCHER IMAGE:



WHOLE PLANT SAMPLE IMAGE:



Result: The harvest material has been confirmed to reference image.

Print Name of Analyst: Juan Gao







PRODUCT INFORMATION

Common Name Feverfew

Latin Name Tanacetum parthenium

Harvest Location Part Used Aerial Description

Feverfew Extract o.8% Parthenolide HPLC

Lot # CXBJ-A-03193 Report Date 04/24/2017

Macroscopic Identification

European Pharmacopoeia **ID Reference**

Plant Part Aerial

MACROSCOPIC DESCRIPTION OF KEY FEATURES:

- General appearance: Dry mixture of leaves, stems and flowers, with majority of parts intact.
- Leaves: Leaves petiolate, bipinnate-partite, lobes ovate, margin crenate or serrate when intact; midrib prominent on the lower surface, both surfaces with grayish-white
- Color: Leaves green or yellowish-green (both surfaces), stems green or yellowish green.
- Odor and taste: Delicately fragrant; slightly bitter.

TYPICAL CRUDE RAW MATERIAL USED FOR PRODUCTION:



Result: The starting material has been confirmed to the reference image/description of Tanacetum parthenium aerial part.

Print Name of Analyst: Juan Gao







PRODUCT INFORMATION

Common Name Feverfew

Latin Name Tanacetum parthenium

Part Used France Aerial

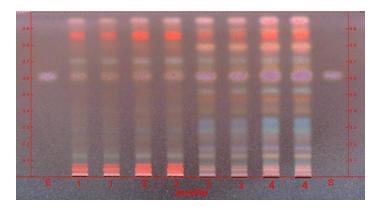
Description Lot # Feverfew Extract o.8% Parthenolide HPLC

Lot # CXBJ-A-03193
Report Date 04/24/2017

Chemical Identification

HPTLC CHROMATOGRAM:

Fig 1:UV 365nm



| Lane | Amount applied | ID |
|------|----------------|--|
| S | 5μL | Parthenolide standard (140041706; NIFDC) |
| 1 | 5μL | Raw material reference standard (<i>Tanacetum parthenium L</i>) (Herb) (ChromaDex, 00030677-160) |
| 2 | 5μL | Raw material (Tanacetum parthenium L) (Aerial) Lot# Y-458160416 |
| 3 | 5μL | Raw material (Tanacetum parthenium L) (Aerial) Lot# Y-458160416 (prepared as manufacture process) |
| 4 | 5μL | Feverfew Extract Lot# CXBJ-A-03193 |

Result: This test sample is consistent with the chromatographic profile of the raw material of Tanacetum parthenium (aerial part) Jiaherb used above. This test sample is characteristic of an extract derived from Tanacetum parthenium aerial part.

Conclusion: Upon completion of our Botanical, Macroscopic, & Chemical identification process, we can confirm that this product is an extract from *Tanacetum parthenium* aerial part.

Print Name of Analyst: Juan Gao

Signature of Analyst: Gaoquan





PRODUCT INFORMATION

Common Name Feverfew Description Feverfew Extract o.8% Parthenolide HPLC

Lot# CXBJ-A-03193 **Latin Name** Tanacetum parthenium Report Date 04/24/2017

Harvest Location France

Chemical Identification (cont.)

Methodology Method Reference JH/ZY-D-270

Ref. Standard Parthenolide, Tanacetum parthenium Leaves

Ref. Standard Source NIFDC, ChromaDex

Aerial

ANALYSIS METHOD:

Apparatus

Part Used

Linomate -5 (CAMAG, Switzerland) Digital Reprostar-3 (CAMAG, Switzerland) Automatic Development Chromatogram ADC2 (CAMAG, Switzerland)

Standard Solution Preparation

Accurately weigh about 1.0 g of raw material standard in a 10-mL volumetric flask. Add about 10ml of methanol sonicated for 30min. Cool to room temperature and pass through a membrane filter having 0.45µm porosity.

Raw Material Preparation: 3.

Dissolve 1q raw material with 10mL of 70% ethanol sonicate for 60min, obtain the ethanol extract by filtration, and use as raw material reference sample standard preparation. Cool to room temperature and pass through a membrane filter having 0.45µm porosity..

Extract Sample preparation 4.

Accurately weigh 0.5 g of sample to be examined in a 10-mL volumetric flask. Add about 10ml of methanol and sonicated for 30min. Cool to room temperature and pass through a membrane filter having 0.45µm porosity.

HPTLC Running conditions 5.

Stationary phase: Silica gel 6o

Mobile Phase: toluene: acetone (17:3, V/V)

Development: development for 8 cm, with saturation 15 min.

Detection: Treat with 1% vanillin sulfuric acid reagent, dry in cool air, heat at 105°C for 3min. Examine at UV 365nm.

Print Name of Analyst: Juan Gao















ComplyID Identification Report

Customer: Jiaherb Inc. Report # CDXA-CID-6672-00

Address: 1 Chapin Rd Assay # CDA-00101242-ATR

Unit 1

Pine Brook, NJ 07058

PO # 20160707-05 ORD # ORD86260

Date: 7/19/2016

Results Summary

Sample name; Feverfew (Tanacetum parthenium) raw material aerial part;

Lot number: YXBJ20151207

Manufacturer: JIAHERB®

Target Reference: Feverfew Herb

Reference file; NA

report:

Result:



The material **passed** characterization as a reference material and has been positively identified.

Comments: Passes for botanical identity and presence of parthenolide

Authored: Jenna Gordon Date: 7/19/2016

QA Verified/

Approved: Christopher Ferlin Chr

Signed original on file at CDXA

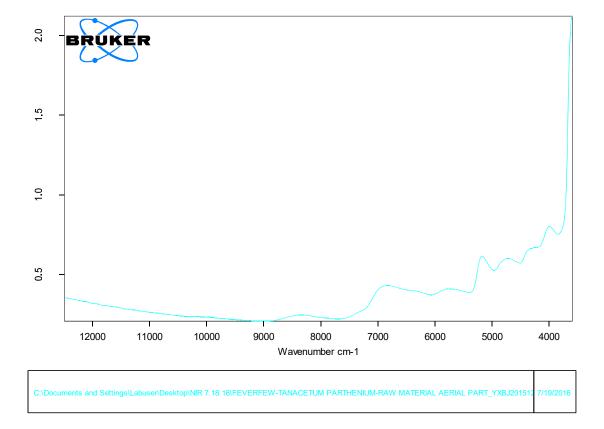






















ComplyID Identification Report

Customer: Jiaherb Inc. Report # CDXA-CID-6673-00

Address: 1 Chapin Rd Assay # CDA-00101242-ATR

Unit 1

Pine Brook, NJ 07058

PO # 20160707-05 ORD # ORD86260

Date: 7/19/2016

Results Summary

Sample name; Feverfew Extract 0.8% HPLC; CXBJ-A-03147

Lot number:

Manufacturer: JIAHERB®

Target Reference: Feverfew Herb

Reference file;

report:

NA

Result:



The material **passed** characterization as a reference material and has been positively identified.

Comments: Passes for botanical identity and presence of parthenolide

Authored: Jenna Gordon Date: 7/19/2016

QA Verified/

Approved: Christopher Ferlin On the mcChristopher Ferlin, on ChromaDack Inc., output of the chromadack.

Date: 7/19/2016

Signed original on file at CDXA











