

Rhodiola Rosea Extract (Rhodiola5Plus™)

3% Rosavins+2% Salidroside HPLC

Lot# CHJT-A-902367



Items Included:

Botanical Identification Report • Macroscopic Identification Report • Chemical Identification Report

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Rhodiola Rosea Extract

PRODUCT INFORMATION

Common Name Rhodiola rosea
Latin Name *Rhodiola rosea*
Harvest Location China
Part Used Root

Description Rhodiola Rosea Extract (Rhodiola5Plus™)
3% Rosavins+2% Salidroside HPLC
Lot # CHJT-A-902367
Report Date 07/09/2019

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

Signature of Analyst: *Gao Juan*

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Macroscopic Identification

ID Reference Flora of China
Plant Part Root

MACROSCOPIC DESCRIPTION OF KEY FEATURES:

- 1. General appearance:** Irregular and varying in size, 10-20 cm in length and 7-10 cm in width; externally dark brown, bark easily falls off, appearing pale yellowish-brown
- 2. Fracture:** Pinkish-brown or light brown
- 3. Texture:** Light, not easily broken
- 4. Odor and taste:** Aromatic; slightly bitter and astringent, gradually sweet

TYPICAL CRUDE RAW MATERIAL USED FOR PRODUCTION:



Result: The starting material has been confirmed to the reference image/description of *Rhodiola rosea* root.

Print Name of Analyst: Juan Gao

Signature of Analyst: *Gao Juan*

Rhodiola Rosea Extract

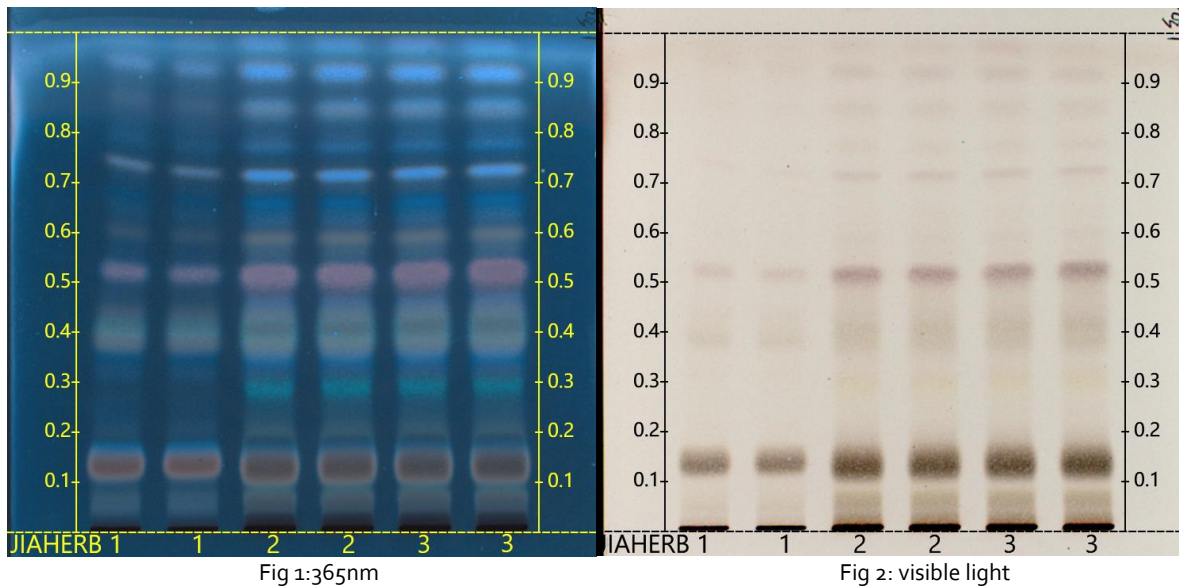
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Chemical Identification

HPTLC CHROMATOGRAM:



Lane	Amount applied	ID
1	5µL	Raw Material reference standard (<i>Rhodiola rosea</i>) (root) 160605-45501
2	5µL	Rhodiola Rosea Extract Lot# CHJT-A-902367
3	5µL	Rhodiola Rosea Extract Lot# CHJT-A-902367

Result: Lane 1 is raw material reference standard (*Rhodiola rosea*) (root) 160605-45501 Jiaherb used. Lane 2 and 3 is test sample, Rhodiola Rosea Extract Lot# CHJT-A-902367. This test sample is consistent with the chromatographic profile of the raw material of *Rhodiola rosea* (root) Jiaherb used above. This test sample is characteristic of an extract derived from *Rhodiola rosea* root.

Conclusion: Upon completion of our Botanical, Macroscopic, & Chemical identification process, we can confirm that this product is an extract from *Rhodiola rosea* root.

Print Name of Analyst: Juan Gao

Signature of Analyst: *Juan Gao*

Rhodiola Rosea Extract

PRODUCT INFORMATION

Common Name	Rhodiola rosea	Description	Rhodiola Rosea Extract (Rhodiola5Plus™) 3% Rosavins+2% Salidroside HPLC
Latin Name	<i>Rhodiola rosea</i>	Lot #	CHJT-A-902367
Harvest Location	China	Report Date	07/09/2019
Part Used	Root		

Chemical Identification (cont.)

Methodology	HPTLC
Method Reference	JH/ZY-D-090
Ref. Standard	Salidroside standard
Ref. Standard Source	National Institutes for Food and Drug Control (NIFDC)

ANALYSIS METHOD:

1. Apparatus

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

2. Standard Solution Preparation

Dissolve 10mg Salidroside standard with 10mL of methanol.

3. Raw Material Preparation:

Dissolve 1g raw material with 10mL of 70% ethanol sonicate for 60min.
Obtain the ethanol extract by filtration, and use as the raw material preparation


4. Extract Sample preparation

Take 0.5g of sample powder, add 5ml 70% ethanol sonicate for 60min.
Obtain the ethanol solution by filtration and use as sample preparation.

5. TLC Running conditions

Stationary phase: Silica gel 60
Mobile Phase: chloroform: methanol: water (7:3:0.4, V/V/V)
Development: development for 6 cm, with saturation 15 min.
Detection: dry the plate in a circulating air; treat with 10% sulfuric acid in ethanol solution, dry in cool air, heat at 105°C for 3min and examine under 365nm and visible light.

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Signature of Analyst: 

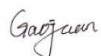
Rhodiola Rosea Extract



PRODUCT INFORMATION

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Harvest Location	China	Lot #	CHJT-A-902367
Part Used	Root	Report Date	07/09/2019

Print Name of Analyst: Juan Gao

Signature of Analyst: 



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