

# Comparison of Ferroptosis-inhibitory Mechanisms between Ferrostatin-1 and Dietary Stilbenes (Piceatannol and Astringin)

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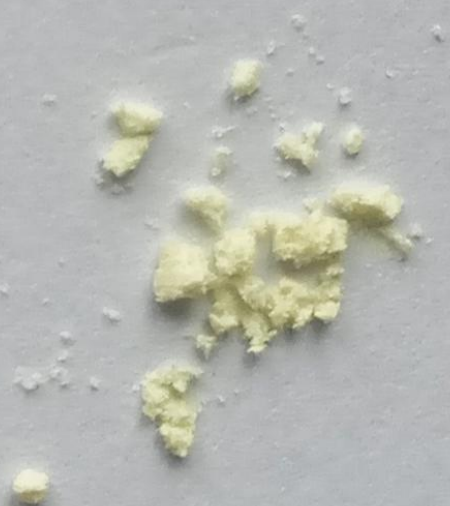
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Piceatannol

CAS No.: 10083-24-6



## 产品分析证书

Certificate of Analysis

中文名称：白皮杉醇

English Name : Piceatannol

别名(Alias):

产品编码(Cat. No.):BP1525

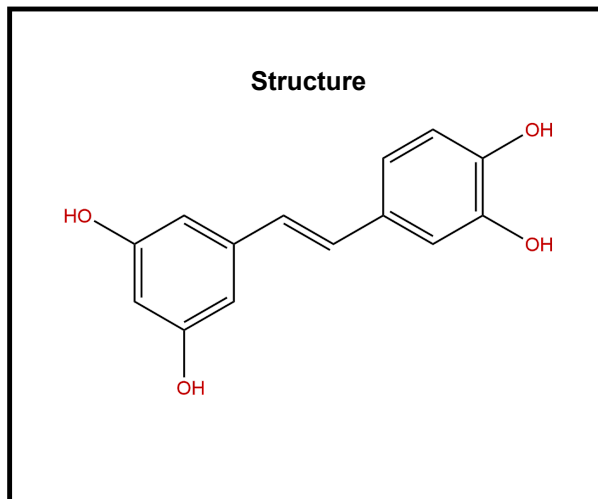
CAS Number: 10083-24-6

分子式(M. F.): C<sub>14</sub>H<sub>12</sub>O<sub>4</sub>

分子量(M. W.): 244.246

批号(Batch No.): PRF9091121

报告日期(Report date): 2018-09-11



### 检验结果 ( Analytical result ) :

检验项目 ( Test Item )	检验指标 ( Specifications )	检验结果 ( Results )
外观Appearance	Light yellow powder	Light yellow powder
干燥失重Loss on drying	< 3.0%	1.45%
纯度Purity (HPLC-DAD,325nm)*	≥98.0%	99.06%
质谱Mass	244.2±1	Conforms
核磁NMR	Comply with the structure	Conforms

\* 色谱图见附件 ( Please find HPLC chromatography attached. )

检测方法 ( Test Method ) : Column: Thermo HyPURITY C18,4.6\*150mm,3.0um; Column temperature: 30°C; Detection Mode: UV325nm;Flow

Rate: 1.0ml/min;Sample dissolution: Methanol; Mobile Phase: A, Acetonitrile B, 0.1%Phosphoric acid in water;Gradient elution: A, 10%-25%,15min.

贮存条件 ( Storage ) :2~8°C, protected from light, keep package airproofed when not in use.

复测期 ( Retest date ) :Three years (2021-09-10) under conditions list above.

QC:

Zhang Ling

Date: 2018-09-11

QA:

Meng Pan

Date: 2018-09-11

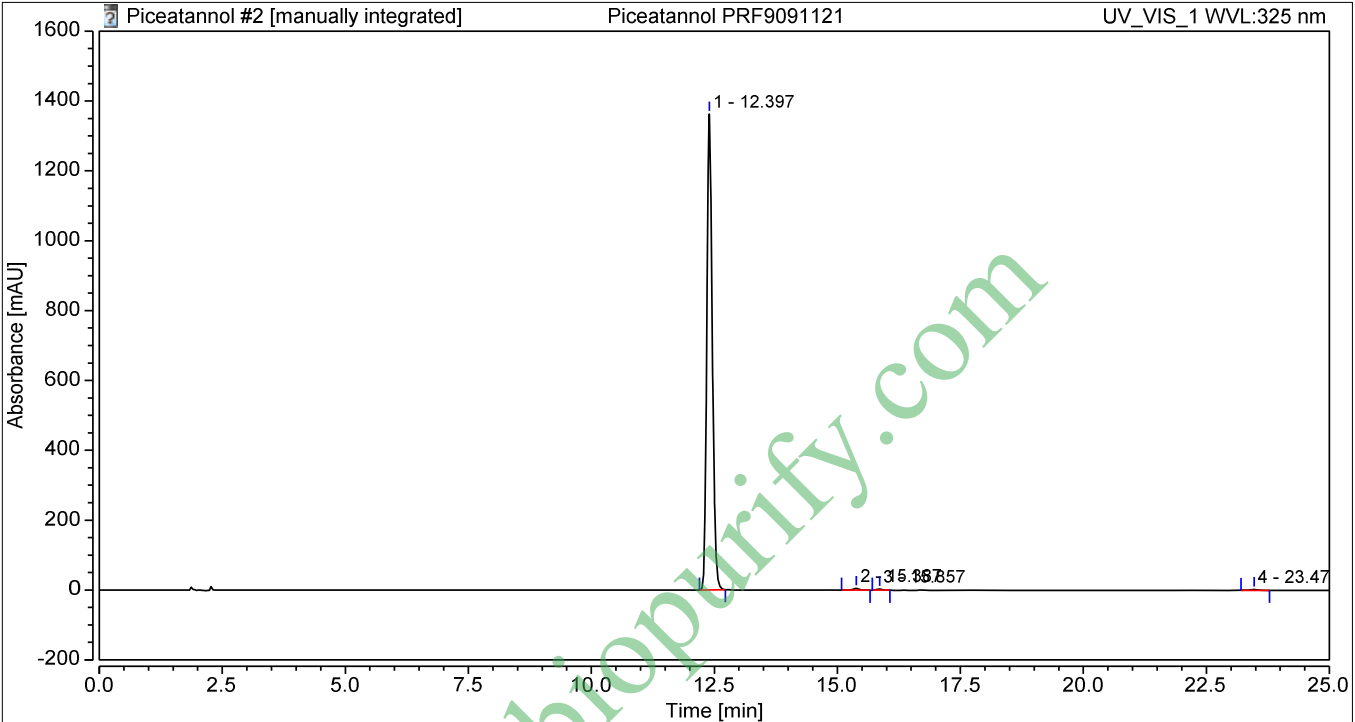
备注(Remarks):The sample solutions should be prepared on the same day, it is the best preparing the solutions immediately before use. If the solutions have to be made up in advance, it should be made as aliquots in tightly sealed vials at less than -20°C. Generally, these might be useable for up to two weeks. The quality of the product is only guaranteed to comply with the attached COA.

In case of quality issue, please contact us within 15 days after receipt of the product.

Chengdu Biopurify Phytochemicals Ltd HPLC Report

Injection Details			
Injection Name:	Piceatannol PRF9091121	Run Time (min):	25.00
Vial Number:	GA5	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	UV_VIS_1
Calibration Level:		Wavelength:	325
Instrument Method:	Piceatannol	Bandwidth:	4
Processing Method:	Piceatannol	Dilution Factor:	1.0000
Injection Date/Time:	11/09/2018 13:44	Sample Weight:	1.0000

Chromatogram



Integration Results							
No.	Retention Time	Area	Height	Relative Area	Plates (USP)	Resolution (USP)	Asymmetry
	min	mAU*min	mAU	%			
1	12.397	177.054	1362.501	99.06	59329	14.44	1.19
2	15.387	0.728	5.211	0.41	85363	2.33	1.08
3	15.857	0.455	3.649	0.25	108533	27.81	1.26
4	23.470	0.506	2.191	0.28	69964	n.a.	1.05
Total:		178.743	1373.553	100.00			0.00



Astringin

CAS No.: 29884-49-9



## CERTIFICATE OF ANALYSIS

### Astringin

[ **Catalog No.** ] CFN92486

[ **CAS No.** ] 29884-49-9

[ **Purity** ]  $\geq 98\%$

[ **M.F** ]  $C_{20}H_{22}O_9$

[ **Physical Description** ] Powder

[ **Solvent** ] DMSO, Pyridine, Methanol, Ethanol, etc.

[ **Weight** ] 10mg

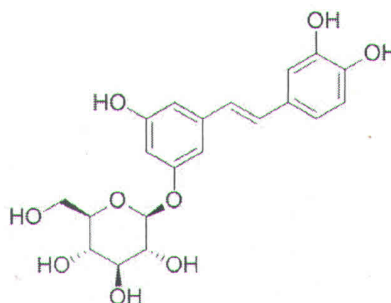
[ **Lot No.** ] CFS201901

[ **Storage** ] Protected from air and light, refrigerate or freeze(2-8 °C)

[ **Intended Use** ] For laboratory use only

[ **Shelf Life** ] 2 years

[ **Chemical Structure** ]



[ **Characterization Data Summary** ]

Analytical Test	Results
Identification by $^1H$ -NMR, HPLC	Consistent with the above structure
Purity tested	$\geq 98\%$

**Authorized Signature:**

**Date:** Oct 09, 2020



# Analysis Report

## <Sample Information>

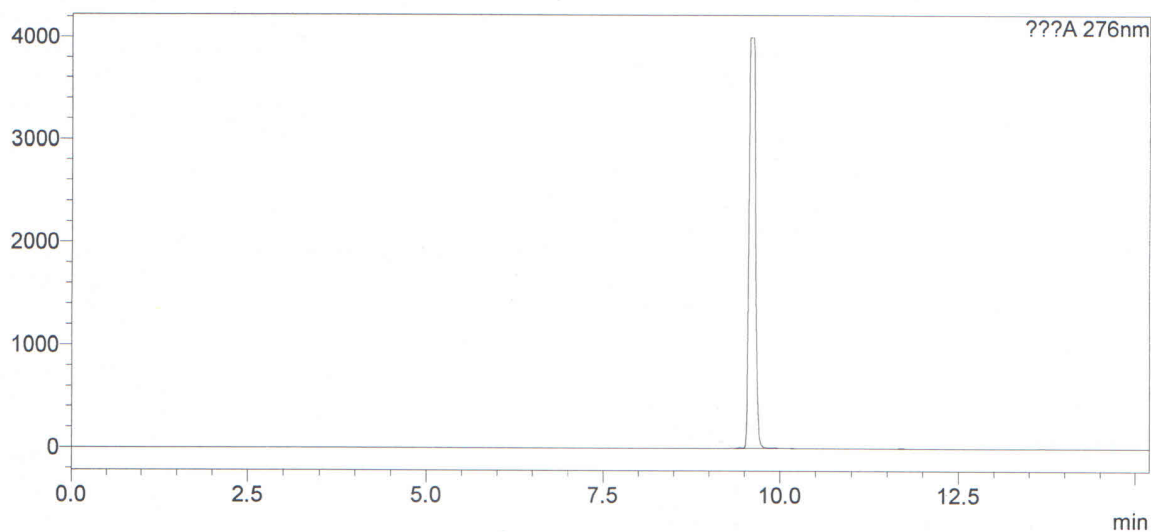
Sample Name : CFN92486  
Instrument : SHIMADZU LC-20AT  
Column : Wonda Cract ODS-2 (5 µm, 4.6×250 mm)  
Column Temp. : 35°C  
Mobile phase flow : 1.0 ml/min  
Injection Volume : 5 µL  
Detection Wave. : UV-276nm  
Con. & Solvent : 1mg/ml (Methanol)

## <Analysis condition>

5%→100% Acetonitrile in 0.05% Phosphoric acid H<sub>2</sub>O  
over 10.0min followed by 100% Acetonitrile to 17.0 min

## <Chromatogram>

mV



## <Peak Table>

???A 276nm

Peak#	Ret. Time	Area	Height	Conc.	Unit	Area%
1	9.442	39689	7201	0.155		0.155
2	9.579	25478593	3998904	99.649		99.649
3	9.924	28244	5818	0.110		0.110
4	11.701	21818	4614	0.085		0.085
Total		25568344	4016538			100.000

