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## Certificate of Analysis

**Product Name:** Ingenol

**Other Name:**

**Catalogue No.:** BP0765

**Batch No.:** 13110701

**Reported Date:** 2013-11-12

**CAS Number:** 30220-46-3

**Mol. Formula:** C<sub>20</sub>H<sub>28</sub>O<sub>5</sub>

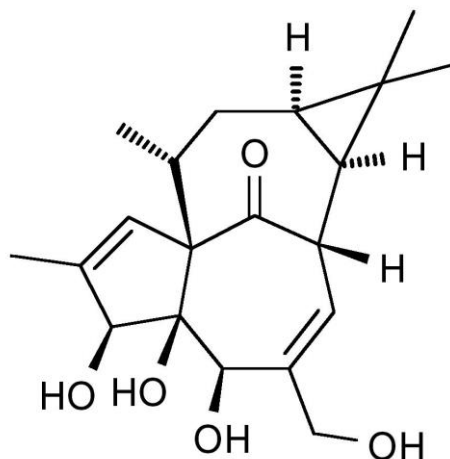
**Mol. Weight:** 348.439

**Botanical Source:** Euphorbia Seeds

**Identification Method:** Mass, NMR

**Analysis Method of Purity:** HPLC-DAD

**Structure:**



**Analytical result:**

Test	Specification	Results
Appearance	White power	White power
Loss on drying	<3.0%	1.2 %
Purity (HPLC-205nm)*	≥99.0%	99.80%
Purity (HPLC-ELSD)*	≥99.0%	99.93%

\* Please find HPLC chromatography attached.

**Package:** Brown vial or HDPE Plastic Bottle

**Storage:** Cool and Dry place, protected from light, keep package airproofed when not in use.

**Expiration:** two years (2015-11-06) under conditions list above.

QC: *Meng Pan*

Date: 2013-11-12

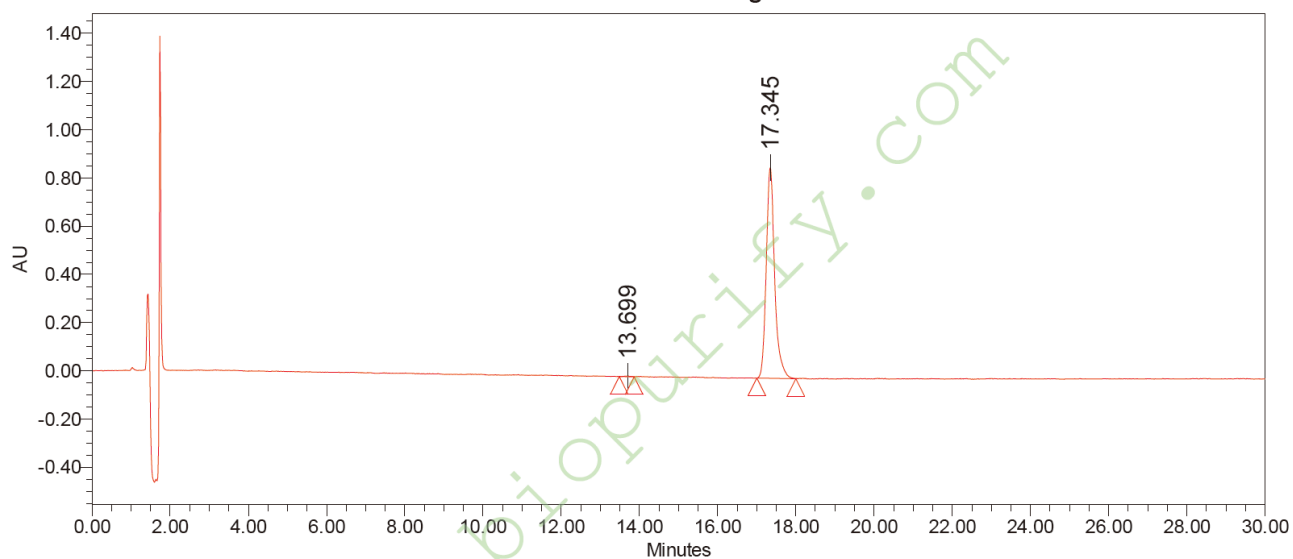
QA: *Lianglei Zhang*

Date: 2013-11-12

SAMPLE INFORMATION

Sample Name:	Ingenol 13110701	Acquired By:	panmeng
Sample Type:	Unknown	Sample Set Name:	
Vial:	1:A,3	Acq. Method Set:	Ingenol
Injection #:	1	Processing Method:	Samples
Injection Volume:	10.00 ul	Channel Name:	205.0nm
Run Time:	30.0 Minutes	Proc. Chnl. Descr.:	PDA 205.0 nm
Date Acquired:	2013-11-12 10:14:32 CST		
Date Processed:	2013-11-12 10:52:34 CST		

Auto-Scaled Chromatogram



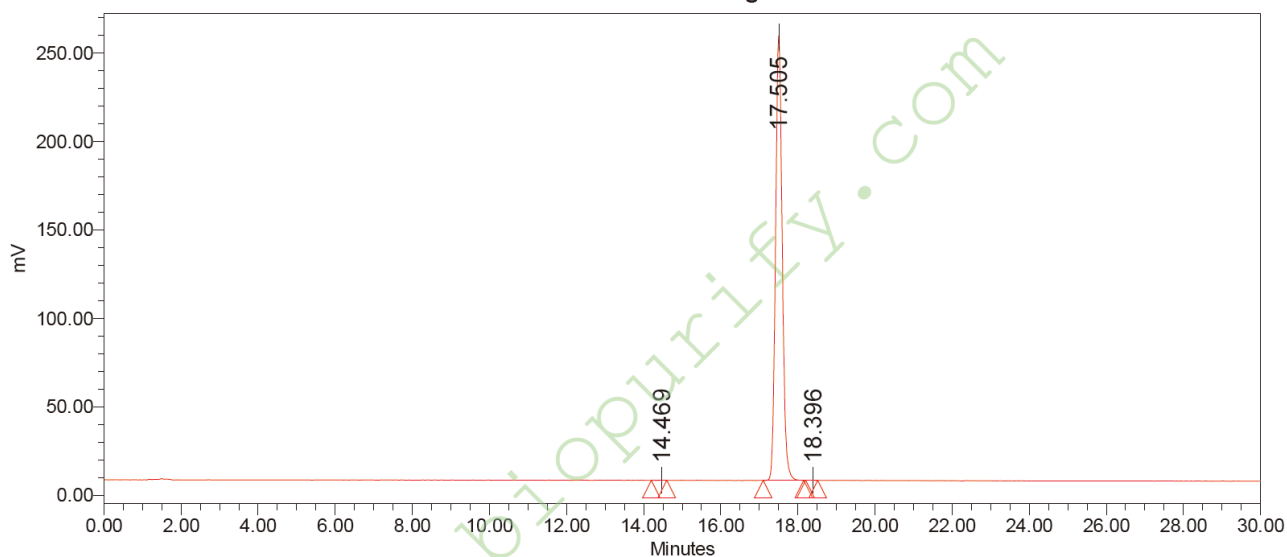
Peak Results

Name	RT	Area	% Area	USP Plate Count	USP Resolution
1	13.699	26091	0.20	10684.43	
2	17.345	13071157	99.80	33374.91	11.17

**SAMPLE INFORMATION**

Sample Name:	Ingenol 13110701	Acquired By:	panmeng
Sample Type:	Unknown	Sample Set Name:	
Vial:	1:A,3	Acq. Method Set:	Ingenol
Injection #:	1	Processing Method:	Samples
Injection Volume:	10.00 ul	Channel Name:	SATIN
Run Time:	30.0 Minutes	Proc. Chnl. Descr.:	
Date Acquired:	2013-11-12 10:14:32 CST		
Date Processed:	2013-11-12 10:49:37 CST		

**Auto-Scaled Chromatogram**



**Peak Results**

Name	RT	Area	% Area	USP Plate Count	USP Resolution
1	14.469	1371	0.05	28462.45	
2	17.505	3030650	99.93	48827.12	8.78
3	18.396	871	0.03	43452.28	2.89