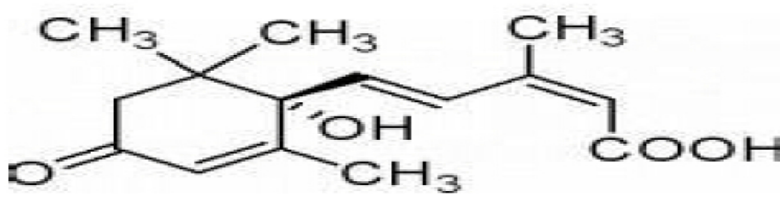




HANGZHOU DINGYAN CHEM CO., LTD
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CERTIFICATE OF ANALYSIS

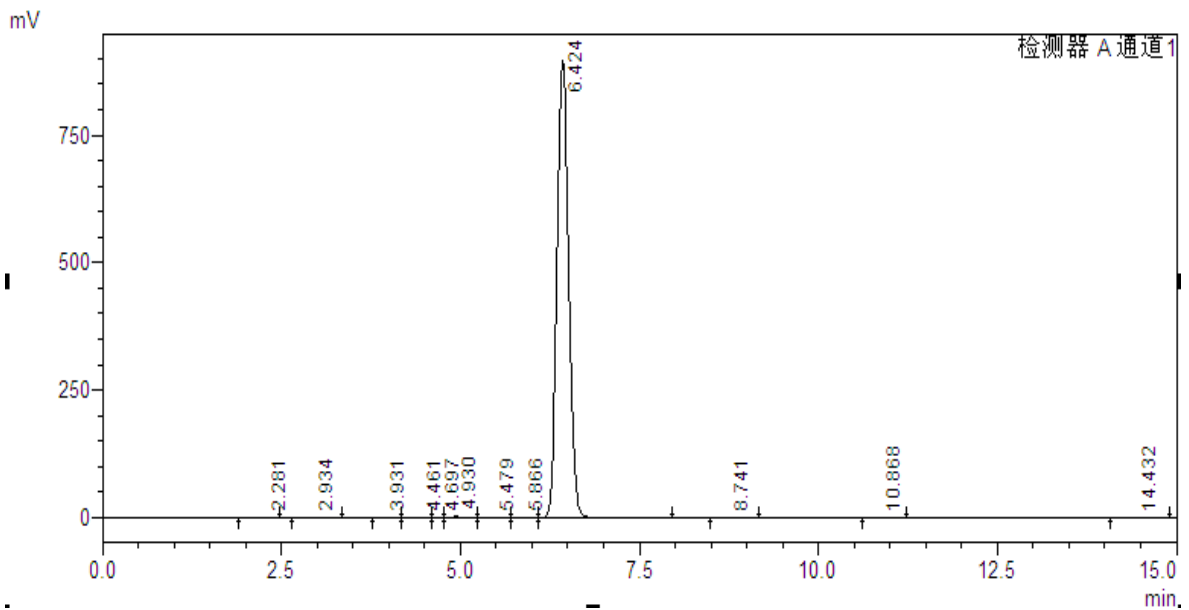
NO: DYC081411203

Product name	(+)- Abscisic Acid
CAS Number	14375-45-2
Molecule Structure	 <p>The chemical structure shows a cyclohexane ring with a ketone group (=O) at the 2-position, a methyl group (CH₃) at the 1-position, and a methyl group (CH₃) at the 4-position. A double bond is located between the 3 and 4 positions of the ring. Attached to the 3-position is a side chain consisting of a double bond to a carbon with a hydroxyl group (OH) and a methyl group (CH₃), followed by another double bond to a carbon with a methyl group (CH₃) and a carboxylic acid group (COOH).</p>
Molecule Formula	C ₁₅ H ₂₀ O ₄
Batch number	20140901
Manuf. & Exp. Date	2014-09-01, 2015-08-31
Testing date	2014-09-01

Test Items	Specification	Results
Characters	white or off-white powder	White powder
Identification	(HPLC) Same retention time with the standard reference	Conforms
Water	0.2% - 1.0%	0.5%
Rotation	432°	432°
Related substance	Any impurity ≤0.5% Total impurities ≤2.0%	0.4% 1.2%
Purity	≥ 98%	98.8%
Assay	(+)- Abscisic Acid (C ₁₅ H ₂₀ O ₄) ≥ 980ug/mg (The ratio of (+)- Abscisic Acid should be ≥98%)	983 ug/mg 98.3%

HPLC Details:

Analytical Column Type: C18 @35° C		Flow Rate: 1.000 ml/min
Analytical Column Dimensions: 25cm X 2.1mm, 5um particle size		Detection wavelength: 262nm
Mobile Phases/Gradient	Acetic Acid: 0.1%	Injection volume: 20 ul
	Methanol: 60%	
	Distilled Water: 40%	
Sample Preparation: 0.1 mg/ml in Methanol		Retention Time: Approximately 6-7 minutes



Hangzhou Dingyan Chem Co., Ltd.
 Quality Control *Pals*
 QUALITY CONTROL: *Pals* CHECK: 姚仙娟 INSPECTOR: 刘清风