



西玛生物  
www.cimasci.com

Wuxi Cima Science Co., Ltd.

Tel: (86-510)-8518 8225

Fax: (86-510)-8518 5685

E-mail: info@cimasci.com

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## Certificate of Analysis

Product and Batch Information			
Product Name:	Palmitoylethanolamide	Country of Origin:	P.R. China
CAS No.:	544-31-0	Molecular Weight:	299.5
Molecular Formular:	C <sub>18</sub> H <sub>37</sub> NO <sub>2</sub>	Batch:	CS-PEA-180113
Manufacture Date:	Jan 13, 2018.	Expiry Date:	Jan 12, 2020.
Item	Specification	Result	Test Method
Active Ingredients			
Assay(% ,On Dried Base)	NLT98.0%	98.52%	GC
Physical Control			
Appearance	Fine flaky crystal	Complies	Visual
Color	White to Off-white	Complies	Visual
Identification	Positive	Complies	IR&1H NMR
Loss on Drying	1.0% Max	0.40%	CPh
Residue on ignition	0.10% Max	0.05%	CPh
Chemical Control			
Heavy Metals	NMT10PPM	Conforms	CPh
Arsenic(As <sub>2</sub> O <sub>3</sub> )	NMT1PPM	Conforms	CPh
Sulfate(SO <sub>4</sub> )	NMT 0.020%	Conforms	CPh
Iron(Fe)	NMT10PPM	Conforms	CPh
Chloride(Cl)	NMT 0.020%	Conforms	CPh
Solvent Residual	Meeting USP Standard	Conforms	GC
Microbiological Control			
Total Plate Count	10,000cfu/g Max	Conforms	USP
Yeast & Mold	300cfu/g Max	Conforms	USP
Coliforms	10cfu/g Max	Conforms	BAM
<i>E.Coli</i>	Negative/10g	Conforms	USP
<i>Salmonella sp.</i>	Negative/25g	Conforms	USP
<i>Staph Aureus</i>	Negative/10g	Conforms	USP
<i>Pseudomonas aeruginosa</i>	Negative/25g	Conforms	USP
Packing and Storage			
Packing	Pack in paper-drums and a Aluminum foil lined-bags inside. 25Kg/Drum		
Storage	Store in a well-closed container away from moisture and direct sunlight.		
Shelf Life	2 years if sealed and stored properly.		

QC:

