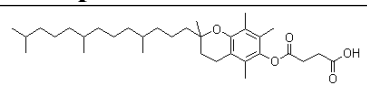




HANGZHOU DINGYAN CHEM CO., LTD
Tel:86-571-87157530 Fax:86-571-87156470
Email:sales@dingyanchem.com

CERTIFICATE OF ANALYSIS

NO: DYC011407093

Product name	Tocopherol Succinate 1185IU	CAS Number	4345-03-3
Molecule Structure		Molecule Formula	C33H54O5
Batch number	20140525	Customer Quantity	500kg net
Manuf. Date:	2014-05-25	Exp. Date	2016-06-01
Criteria	USP36	Report Date	2013-06-02

Items	Standard	Result
Physical & chemical data		
Color	White or off-white	Conforms
Odour	Nearly odorless	Conforms
Appearance	Granular	Conforms
Analytical quality		
Identification	To conform USP 36	Conforms
Melting point	70-78°C	73.7-77.5°C
Acidity(0.1N sodium hydroxide)	18.0~19.3ml	19.1ml
Loss on dry	≤0.50%	0.08%
Residue density	≤0.10g/ml	0.05g/ml
Loose density	≥0.35g/ml	0.5g/ml
Assay	96.0%~102.0%	96.98%
Free tocopherol	≤1%	0.50%
Contaminants		
Heavy metal	≤10ppm	<10ppm
Lead	≤1ppm	<0.5ppm
Arsenic	≤0.5ppm	<0.1ppm
Mercury	≤0.1ppm	<0.1ppm
Cadmium	≤0.5ppm	<0.1ppm
Residual solvents(Hexane)	≤290ppm	29ppm
Residual solvents(Ethanol)	≤0.5%	Negative
B(a)P*	≤0.5mcg/kg	0.5mcg/kg
Microbiological		
Total plate count	≤1,000cfu/g	<1,000cfu/g
Yeast & mould	≤100cfu/g	<100cfu/g
Salmonella	Negative	Conforms

ADD:RM 1118, NO.I BUILDING, BAIYUN TOWER, JIANGGAN AREA, HANGZHOU CITY, CHINA



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Staphylococcus	Negative	Conforms
E coil	Negative	Conforms
Conclusion of analysis:Conforms to USP36		

Hangzhou Dingyan Chem Co., Ltd.
QUALITY CONTROL: *Benlu Song*
Signature(s) CHECK:姚仙娟 INSPECTOR: 刘清风