

Product Description

Anallerg®--VCE is a relatively non-discoloring vitamin C derivative and is a hydrophilic and lipophilic substance. It has the same effects as vitamin C, namely: whitening, lightening, anti-oxidation, and promoting collagen synthesis.

Appearance	White to off-white crystalline particles or solid powder		
Odor	Characteristic odor		
Purity(HPLC, %)	≥99%		
Solubility	Easily soluble in water (solubility exceeds 10%), soluble in loweralcohols, slightly soluble in oil or esters		
Dosage	0.1-2.0%		

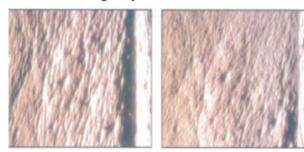
Efficacy Verification

• Whiten and lighten spots(Tyrosinase activity inhibition test)

Dosage	0.1%	0.5%	1%
VC	96.7%	96.7%	97.6%
VCE	40.5%	89.4%	95.7%
MAP	0%	4.9%	6.1%

2% VCE can effectively whiten skin, improve the glossiness of sunburned skin, and make dark skin bright.

• Promote collagen synthesis



• Free radical scaveenging

Sample		DPPH clearance rate(%)	
	VCE	30.0	
	ВНТ	10.6	
	Magnesium Ascorbyl Phosphate	0.0	

Reduction of DPPH and BHT by VCE

Sample	IC ₅₀ (μg/mL)	
VCE	2.86	
Ascorbic acid acetate	39.63	
VC	1.58	

DPPH free radical scavenging capacity test report

Antioxidant

	D(0/)	Time (h)			
	Dosage(%)	9	12	15	18
Control		34.2	48.5	71.6	100.3
VCE	0.005	26.5	41.0	58.5	85.5
VCE	0.02	25.0	37.5	53.8	77.3
BHT		23.0	32.7	44.7	61.3
VE		29.5	55.4	79.2	116.1

Change in perxoide of cottonseed oil heated to 100%(mg/kg)

	Dosage		Time (h)			ABS
	(%)	6	9	12	15	ABS
Control		24.8	43.7	73.0	113.9	0.109
VCE	0.02	18.9	31.1	49.5	77.1	0.260
VCE	0.06	18.8	31.7	48.6	75.7	0.093
BHT	0.02	12.2	22.5	36.5	56.7	0.423
VE	0.02	25.6	48.9	77.4	91.2	0.092

Measurement of peroxide value change of soybean oil (100°C, 23min, mg/kg)