

CERTIFICATE OF ANALYSIS

Product name	Alpha-keto-phenylalanine calcium salt	CAS NO.	51828-93-4
Quantity	450kg	Batch NO	*****
Manufacturing date	*****	Expiry date	2 years
Items	Standards		Results
Appearance e	white or almost crystalline powder		White crystalline powder
Odor	Characteristic		Characteristic
Identification	Chemical method or IR or HPLC		Positive
E _{1cm} ^{1%}	0.05 max		0.021
PH	5.0-7.5		6.38
Water content	6.0% max		4.80%
Assay	98.5%-102.0%		99.07%
Calcium	10.76-11.16%		11.01%
Related substance	Any single impurity:0.5% max		0.40%
	Total impurities :1.0% max		0.70%
Residual solvents	Methanol:0.3% max		0.03%
	Ether:0.5% max		0.03%
	N,N-dimethylformamide:0.088%max		0.002%
Chloride	0.02%max		Conforms
Heavy metals	0.0020% max		Conforms
Lead	3ppm max		Conforms
Mercury	0.1ppm max		Conforms
Cadmium	1ppm max		Conforms
Total plate count	1000 cfu/g max		30
Yeast & mold	100 cfu/g max		<10
E.Coli	Negative		Negative
Salmonella	Negative		Negative
Conclusion	Qualified		

Q.C. Director: Chen Dan