

ZHANGJIAGANG HUACHANG PHARMACEUTICAL CO.,LTD

NO.1 Nanhai Road, Jingang Town, Zhangjiagang City, Jiangsu Province, China
Yangtse International Chemical Industry Park ZIP: 215600
www.huachangpharm.com

CERTIFICATE OF ANALYSIS

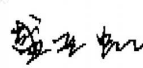
Report Date: Dec. 11, 2018

Product Name: DL-METHIONINE

Quantity: 1000 KGS Production Date: Dec. 09, 2018
Batch No.: SC03-20181202 Retest Date: Dec. 08, 2020

TEST ITEMS	INSPECTION CRITERION	RESULT
Appearance	White crystals or crystalline powder	Conforms
Identification	A. The IR spectrum is CWRs; B. Complies as per TLC test; C. Specific rotation is $-0.05^{\circ} \sim +0.05^{\circ}$; D. A deep-red colour develops.	Meets the requirements
Appearance of solution	Clear and colourless	Conforms
pH	5.4~6.1	5.9
Related substances	$\leq 0.2\%$	$< 0.2\%$
Chloride(Cl)	$\leq 200\text{ppm}$	$< 200\text{ppm}$
Sulfate(SO ₄)	$\leq 200\text{ppm}$	$< 200\text{ppm}$
Heavy metals(Pb)	$\leq 10\text{ppm}$	$< 10\text{ppm}$
Loss on drying	$\leq 0.5\%$	0.11%
Sulfated ash	$\leq 0.1\%$	0.04%
Assay	99.0%~101.0%	99.5%
Total plate count	≤ 1000 CFU/Gram	< 1000 CFU/Gram
Mold & Yeast	≤ 100 CFU/Gram	< 100 CFU/Gram
E.Coli	Negative	Conforms
Salmonella	Negative	Conforms
Staphylococcus Aureus	Negative	Conforms
CONCLUSION: ABOVE ITEMS PASSED TEST ACCORDING TO THE STANDARD OF EP 7.0		

Inspector: 

Checker: 

Director: 