



HuminRich Group (Since 2002)
 Website: www.huminrichs.com
 Email: humatech@huminrichs.com
 Address: Shenyang, Liaoning, P.R.China
 Product Standards: Enterprise standards
 Industry standards, ALJ, USP, JP, FCC, EP, etc

Chemical Additives&Feed Additives-Alternative Antibiotics
 Pharmaceutical intermediates&Health raw material
 Plant Growth Regulators& Biostimulants

CERTIFICATE OF ANALYSIS

NO.: XF240523-1
DATE: May 23, 2024

PRODUCT	XFA2011A-6 ENZYME AMINO ACID 80%	
BATCH NO.	XFA2011A-6-R240504R	
PRODUCTION DATE	20240504	
EXPIRY DATE	20270503	
STANDARD	COMPANY INNER CONTROL STANDARD	
TEST ITEM	STANDARD	RESULT
APPERANCE	LIGHT YELLOW POWDER	LIGHT YELLOW POWDER
SOURCE	PURE PLANT SOURCE	PURE PLANT SOURCE
SIZE	80-100MESH	PASS
WATER SOLUBILITY	99%-100%	99.3%
TOTAL AMINO ACIDS	80%-85%	82.85%
ORGANIC MATTER:	90%-95%	90.5%
ORGANIC CARBON:	40%-55%	41.2%
ORGANIC NITROGEN:	14%-16%	14.6%
SODIUM:	0.01%-0.1%	0.05%
PH	3-7	5.5
AMINO-GRAM LIST		
TEST ITEM	STANDARD	RESULT
L- ASPARTATE	/	6.81
L-GLUTAMIC ACID	/	12.56
L-SERINE	/	2.05
L-GLYCINE	/	21.08
L-HISTIDINE	/	0.26
L-ARGININE	/	2.15



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L-THREONINE	/	5.85
L-ALANINE	/	8.09
L-PROLINE	/	12.94
L-TYROSINE	/	0.51
L-VALINE	/	1.04
L-METHIONINE	/	1.72
L-CYSTINE	/	0.02
L-ISOLEUCINE	/	1.58
L-LEUCINE	/	2.03
L-PHENYLALANINE	/	2.27
LYSINE	/	1.89
TOTAL AMINO ACIDS	80%-85%	82.85%
HEAVY METAL		
AS.PPM	<10	<10
PB.PPM	<10	<10
HG.PPM	<10	<10
CR. PPM	<10	<10
CD. PPM	<10	<10
CONCLUSION	OK	
NOTE	THE ABOVE DATA IS FROM COMPANY R&D CENTER FOR REFERENCE. THE RESULTS MAY DIFFER FROM VARIOUS TEST METHODS. AND OUR COMPANY DOES NOT BEAR ANY LEGAL LIABILITY THEREOF.	
ANALYST	WANG LIN	CHECKER CHEN QINGQING