



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.: XF240424-1
DATE: Apr 24, 2024

PRODUCT	XFA2040W-F1 FISH PROTEIN POWDER	
BATCH NO.	XFA2040W-F1-R240424R	
PRODUCTION DATE	20240424	
EXPIRY DATE	20270423	
STANDARD	COMPANY INNER CONTROL STANDARD	
TEST ITEM	STANDARD	RESULT
SMELL	LIGHT FISHY SMELL	LIGHT FISHY SMELL
APPERANCE	LIGHT YELLOW POWDER	LIGHT YELLOW POWDER
SOURCE	OCEAN FISH	OCEAN FISH
SIZE	80-100MESH	PASS
WATER SOLUBILITY	99%-100%	99.2%
TOTAL AMINO ACID	85%-95%	85.1%
POLYPEPTIDE:	75%-80%	75.0%
FREE AMINO ACID	10%-15%	10.1%
ORGANIC MATTER:	60%-80%	60.5%
ORGANIC N:	14%-16%	14.2%
ORGANIC P:	0.5%-2%	0.55%
ORGANIC K:	0.5%-2%	0.53%
MOISTURE:	5%MAX	3.5%
PH	5-7	5.5
AMINO-GRAM LIST		
TEST ITEM	STANDARD	RESULT
ASPARTIC ACID	/	8.77
GLUTAMIC ACID	/	13.98



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SERINE	/	2.84
GLYCINE	/	13.53
HISTIDINE	/	0.93
ARGININE	/	3.81
THREONINE	/	9.93
ALANINE	/	6.61
PROLINE	/	9.65
TYROSINE	/	0.47
VALINE	/	2.55
METHIONINE	/	1.76
CYSTINE	/	0.11
ISOLEUCINE	/	2.43
LEUCINE	/	2.80
PHENYLALANINE	/	2.06
LYSINE	/	2.87
TOTAL AMINO ACIDS	85%-95%	85.1%
HEAVY METAL		
AS.PPM	<10	<10
PB.PPM	<10	<10
HG.PPM	<10	<10
CR. 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