

CROWN SUPPLEMENTS

Raw Material Certificate of Analysis Record

CERTIFICATE OF ANALYSIS

Product Name:	Hydrolyzed Collagen	Batch Number:	HCF20250420
Batch Quantity:	4,600 kg		

ANALYSIS	SPECIFICATION	RESULT
Appearance	White or Light yellow Powder	Complies
Smell and Taste	With the product unique smell and taste	Complies
Impurity	No visible exogenous impurity	Complies
Source	Fish Skin	Complies
Stacking Density (g/cm ³)	/	0.29
Protein	≥90%	98.94%
Hydroxyproline	≥5%	9.02%
Molecular Weight (≤10000 Da)	90%	99.99%
pH (10% aqueous solution)	5.5-7.5	6.1
Moisture	≤7%	6.20
Ash	≤2%	0.50
Arsenic (As) (PPM)	≤0.5	Complies
Lead (Pb) (PPM)	≤0.5	Complies
Mercury (Hg) (PPM)	≤0.1	Complies
Cadmium (Cd) (PPM)	≤0.1	Complies
Total Count (cfu/g)	≤1000	Complies
Mould & Yeast (cfu/g)	≤100	Complies
E. coli	Negative	Negative
Salmonella	Negative	Negative
Conclusion	Conform to specification.	
Packing	Packed in paper carton outside and two PE bags inside.	
Storage	Preserve in well-closed, light-resistant, and protect from moisture	

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CERTIFICATE OF ANALYSIS

Attachment 1: Protein Analysis

TEST ITEM	UNIT	TEST METHOD	TEST RESULT	LOQ
Aspartic acid	g/100g	Lab Method-Automatic amino acid analyzer	5.35	0.01
Threonine	g/100g		2.78	0.01
Serine	g/100g		3.48	0.01
Glutamic acid	g/100g		10.41	0.01
Glycine	g/100g		22.60	0.01
Alanine	g/100g		9.72	0.01
Valeric acid	g/100g		2.26	0.01
Methionine	g/100g		1.92	0.01
Isoleucine	g/100g		1.47	0.01
Leucine	g/100g		2.69	0.01
Tyrosine	g/100g		0.72	0.01
Phenylalanine	g/100g		1.87	0.01
Lysine	g/100g		3.33	0.01
Histidine	g/100g		0.98	0.01
Arginine	g/100g		7.51	0.01
Proline	g/100g		12.04	0.01
Sum of 16 Items	g/100g	-	89.13	-

Attachment 2: Molecular Weight Analysis

Molecular Weight Range (Dalton)	Percentage (%)	Average Molecular Weight (Dalton)
>10000	0.01	10882
10000-5000	0.89	6041
5000-3000	5.24	3667
3000-2000	7.36	2405
2000-1000	19.16	1387
1000-500	32.78	705
100-189	31.53	270
<189	3.02	/