ZXCHEM

HYDROTIDE™

HYDROLYZED KERATIN

Great Power For Hair Care

WHO WE ARE

Founded in 1995, ZXCHEM is a globally renowned leader in the fields of nutrition, health, and supplement products. As a leading manufacturer and exporter of keratin in China, we are committed to delivering high-quality protein products to meet the needs of customers worldwide.

We have invested in a state-of-the-art production facility for animal and plant protein peptides, equipped with advanced technology, and established a dedicated research and development center to drive continuous innovation and product optimization. Additionally, our experienced sales teams are focused on providing efficient and reliable services, ensuring consistent product quality and a stable supply.

OUR MAIN PRODUCTS

Star Product:
Hydrolyzed Keratin

High-Potential Products:
Hydrolyzed Collagen Peptides
Pea Protein Peptides
Rice Protein Peptides

New Products:
Plant-Based Keratin
Plant-Based Collagen
Modified Protein Peptides

WHAT IS HYDROLYZED KERATIN?

Keratin is the main structural protein in animal hair and skin, including humans. Through enzymatic hydrolysis, large keratin molecules are broken into small peptides (500–1000 Daltons) with an amino acid profile similar to human hair, enhancing absorption.

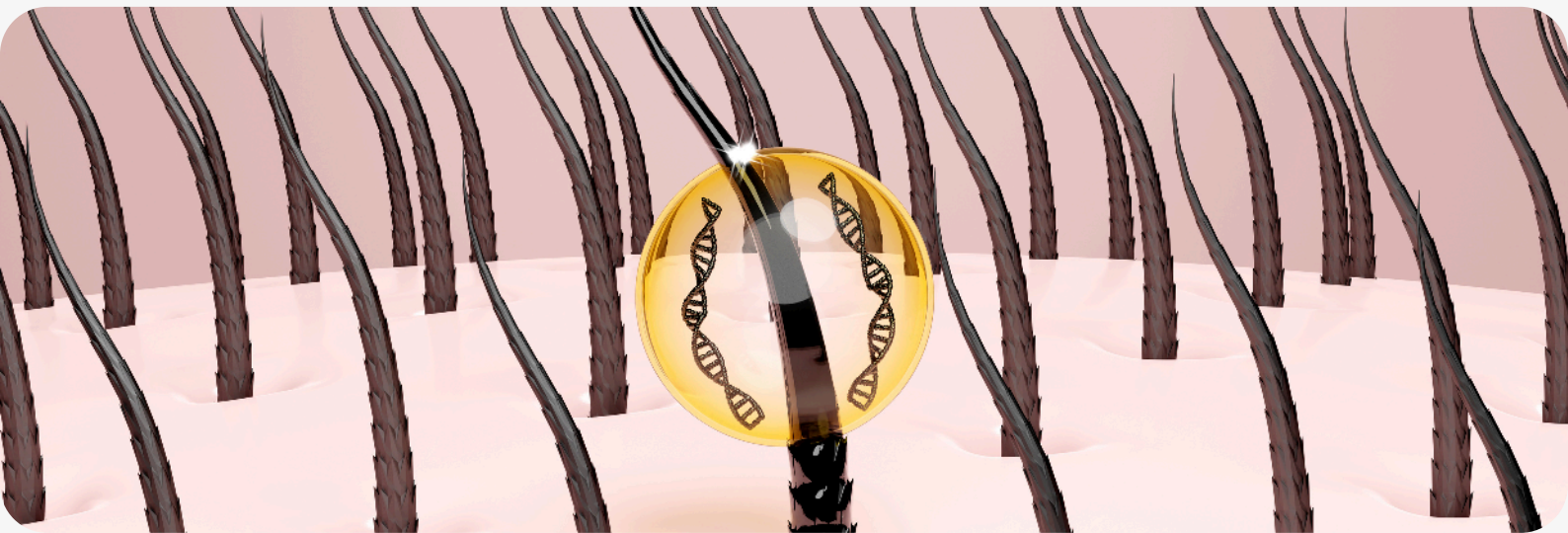
Key Features:

1. **Deep Penetration:** Small peptides penetrate and repair damaged hair.
2. **Nutrient Restoration:** Replenishes essential hair components.
3. **High Solubility:** Water-soluble, moisturizing, and formulation-friendly.

APPLICATIONS IN COSMETICS AND OTHER FIELDS

1. **Hair Care:** Enhances shampoos, conditioners, and masks for healthier hair.
2. **Beard Care:** Supports grooming and maintenance in beard products.
3. **Pet Care:** Improves pet hair health in specialized formulations.
4. **Nail Care:** Strengthens nails in targeted products.
5. **Pharma & Food:** Used in select pharmaceutical and food applications.

Hair Care Shampoo	**0.2%-2%**
Hair Care Conditioner	**0.5%-5%**
Pre-Treatment For Hair-Coloring	**1%-5%**
Pre-Treatment For Hair-Perming	**1%-5%**



SPECIFICATION

Name: Hydrolyzed Keratin Peptide
Inci name: Hydrolyzed Keratin
Origin: Feather (Chicken/Duck)
Solubility: Well soluble in water
Average M.W.: 400-2000da

ITEMS	HKP-P90	HKP-LK10C	HKP-LK20C	HKP-LK30C
Appearance	Off-white powder	Yellow to dark brown liquid		
Smell	Characteristic	Characteristic		
Nitrogen	14.4%	1.4% min.	2.8% min.	4.2% min.
Dry residue	7%	10% min.	20% min.	28.5% min.
Ash	6%	1% max.	2% max.	3% max.
pH value	5.5~7.5	4.0-7.0	4.0-7.0	4.0-7.0
Heavy metal (as Pb)	10ppm max.	10ppm max.		
As	1ppm max.	1ppm max.		
Total bacteria	<1000cfu/g	<100cfu/g		
Harmful Bacteria	Negative	Negative		
Additives	Preservative Free	Customized preservative solution		

TECHNICAL SUPPORT

Based in Guangdong, China's renowned cosmetics industry hub, our production and R&D facilities are backed by a professional team offering expert technical support in four key areas:

Customized preservatives

Formulation Design

OEM/ODM Services

Regulatory Consulting

GLOBAL PRODUCTION AND SALES NETWORK:

Raw Material Production Bases
Shandong / Jiangxi / Henan

Cosmetics R&D Center
Guangzhou

Cosmetics OEM/ODM Production Bases
Guangzhou / Zhaoqing / Henan

International Sales Network
Russia / Egypt / Turkey / South Korea / Peru / United States / United Arab Emirates / Cambodia

PRODUCTS LIST

ANIMAL PROTEINS:

Type	Product Code	INCI Name	Active Matter	Recommended Categories					
				Repair	Strengthen	Condition	Shine	Manag eability	Protect
Keratin	HydroTide® HKP-L	Hydrolyzed Keratin & Water	10%; 20%; 30%	***	***	*	*	*	***
	HydroTide® QuatK-LH20	Hydroxypropyltrimonium Hydrolyzed Keratin & Water	20%	*	*	*	***	***	*
	HydroTide® QuatK-LL25	Laurdimonium Hydroxypropyl Hydrolyzed Keratin & Water	25%	*	*	***	*	***	*
Collagen	HydroTide® HCoP-L	Hydrolyzed Collagen & Water	20%; 30%; 40%	*	*	***		***	*
	HydroTide® SilanCo-LE25	Hydrolyzed Collagen PG-Propyl Methylsilanediol & Water	25%			*		*	*
	HydroTide® QuatCo-LE25	Laurdimonium Hydroxypropyl Hydrolyzed Collagen & Water	25%					***	*
Silk	HydroTide® HSP-L	Hydrolyzed Silk & Water	10%; 20%	*	*	***	*	***	*
Elastin	HydroTide® HEP-L	Hydrolyzed Elastin & Water	10%; 20%		***	*	*	*	

PLANT PROTEINS:

Type	Product Code	INCI Name	Active Matter	Recommended Categories					
				Repair	Strengthen	Condition	Shine	Manag eability	Protect
Pea	HydroTide® HPP-L	Hydrolyzed Pea Protein & Water	10%; 20%	*	*	***	***	*	*
Rice	HydroTide® HRP-L	Hydrolyzed Rice Protein & Water	10%; 20%		*	*	*	***	
Soybean	HydroTide® HSBP-L	Hydrolyzed Soybean Protein & Water	10%; 20%		*	*	*	***	
Wheat	HydroTide® HWP-L	Hydrolyzed Wheat Protein & Water	10%; 20%			***	*		
	HydroTide® QuatW-L25	Laurdimonium Hydroxypropyl Hydrolyzed Wheat Protein & Water	25%			*	***	***	

COMPOUND PROTEINS (VEGAN):

Type	Product Code	INCI Name	Active Matter	Recommended Categories					
				Repair	Strengthen	Condition	Shine	Manage ability	Protect
Vegan Proteins	HydroTide® PlantK-L25C	Hydrolyzed Corn Protein & Hydrolyzed Soy Protein & Hydrolyzed Wheat Protein & Water	20%; 25%		*	*	*	*	
Vegan Proteins	HydroTide® PlantK-L25R	Hydrolyzed Rice Protein & Hydrolyzed Soy Protein & Hydrolyzed Wheat Protein & Water	20%; 25%		*	*	*	*	
Vegan Proteins	HydroTide® PlantCo-L25R	Hydrolyzed Pea Protein & Hydrolyzed Rice Protein & Water	20%; 25%		*	*	*	*	

WHY CHOOSE US

As China's leading keratin manufacturer, we deliver professional excellence. Our advanced facilities and strict quality control ensure high-quality, safe keratin meeting global standards. With years of expertise, we provide tailored solutions, efficient delivery, and exceptional customer support. Our sustainable practices reflect our commitment to quality and reliability. Choose us for a trusted, professional partner.

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