

Biotechnological Actives

Lonza Personal Care is committed to offering new, unique active ingredients to the Personal Care Industry. Biotechnology has provided us with methods for producing distinctive active ingredients from novel sources.

Product	INCI Designation	Properties	Use Level
Acqua-Biomin™ Product Line	These protein-complexed minerals provide smoothing, moisturizing and cell-renewing capabilities to skin and hair in an aqueous, bioactive form. Available in K, Cu, Zn, Se, Ca, Mg and combinations		0.5–5.0 %
βetavera™	Water & <i>Aloe barbadensis</i> Leaf Extract & Yeast Extract	β-Glucan enriched aloe vera. Provides anti-irritation for skin and protection for hair	5.0–10.0 %
Biocell SOD	Superoxide Dismutase	Protein bonded SOD. Provides anti-inflammatory and antioxidant effects while offering environmental protection to skin and hair	0.1–0.5 %
Biodynes™ EMPP (Glycosaminoglycan-enriched peptone) Patent No. US6461857	Water & <i>Saccharomyces</i> Ferment Lysate Filtrate	Stimulates the production of soluble elastin. Offers anti-wrinkle and line-minimizing effects	0.1–1.0 %
Biodynes™ O ₃ (O ₃ stressed yeast lysate) Patent No. US2006 / 0110815	<i>Saccharomyces</i> Ferment Lysate Filtrate	Offers DNA protection, lipid barrier protection & repair, protection against ozone. For anti-wrinkle, firming and skin smoothing. Prevents formation of AGEs	1.0–5.0 %
Biodynes™ TRF™ Improved 25 (UV stressed yeast lysate) Patent No. US6461857	Water & <i>Saccharomyces</i> Lysate Extract	Soothing anti-inflammatory and anti-irritant. Line minimizing, cell renewing and proliferating while smoothing and moisturizing skin and increasing cell respiration	0.5–3.0 %
Biophos 35 PF	<i>Saccharomyces</i> / Magnesium Ferment Hydrolysate & <i>Saccharomyces</i> / Potassium Ferment Hydrolysate & Adenosine Triphosphate	Offers excellent moisturizing properties. Replenishes skin with essential nutrients, Mg and K	1.0–3.0 %
Bio-Plex NMF	Sodium PCA & Lactic Acid & Sodium Lactate & Urea & Collagen Amino Acids	Combination of effective humectants, moisturizers and proteins for use on skin and hair	1.0–5.0 %
Bio-Plex RNA PF	Propylene Glycol & Hydrolyzed RNA & Hydrolyzed DNA	Moisturizer comprised of moisture binding fractions of DNA and RNA for use on skin	0.5–2.0 %
Bio-Pol™ β	Water & <i>Salix nigra</i> (Willow) Bark Extract & <i>Amorphophallus konjac</i> Root Powder	Problem skin solution. Anti-microbial activity from willowbark extract and oil-controlling biopolymer offering film-forming properties	2.0–10.0 %
Bio-Pol™ OE BTS PF	Sodium C8-16 Isoalkylsuccinyl Lactoglobulin Sulfonate	Film-forming and oil-controlling biopolymer helps reduce the appearance of sebum on skin	1.0–5.0 %
Vegepol PF	Water & Hydrolyzed Soy Protein & Coconut Acid	Film-forming and oil-controlling biopolymer helps reduce the appearance of sebum on skin	1.0–5.0 %
Vegepol W	Sodium C8-16 Isoalkylsuccinyl Wheat Protein Sulfonate	Film-forming and oil-controlling biopolymer helps reduce the appearance of sebum on skin	1.0–5.0 %
Carnipure™ Crystalline	Carnitine	An active for hair and skin with a long history of usage in the nutritional market. Key benefits include enhancement of cellular energy, upregulation of the expression of key components of the ECM and increase to skin's strength and elasticity	1.0–2.0 %
DermaFlux™	Water & Urea & Yeast Amino Acids & Trehalose & Inositol & Taurine & Betaine	Upregulation of Aquaporin-3; contains 3 key osmolytes and a sugar to regulate moisture flux in the skin	1.0–5.0 %
Genti-Fol™ SEA	Salicylic Acid & Maltodextrin	Gentle exfoliation from Salicylic Acid	1.0–5.0 %

Product	INCI Designation	Properties	Use Level
Hydromide™ Blend	<i>Glycine soja</i> (Soybean) Seed Extract & Ceramide NG	Moisturizing / firming combination of ceramides and lipids, maximizing the function of the epidermal permeability barrier leading to healthy, vibrant skin	1.0–4.0%
Kudzu Zymbiosome™ Fermentum Patent No. US2003198700A1	Water & <i>Pueraria lobata</i> Symbiosome Extract	Offers free radical scavenging, enhances procollagen synthesis in fibroblasts and improves skin tone, skin brightness and elasticity	0.1–1.0%
LactoPro CLP	<i>Lactobacillus</i> / Milk Solids / <i>Glycine soja</i> (Soybean) Oil Ferment & Cyclodextrin	Macronutrient complex for skin and hair nutrition	1.0–5.0%
Lotus Zymbiosome™ Fermentum Patent No. US2003198700A1	Water & <i>Lotus japonicus</i> Symbiosome Extract	Free radical scavenging properties that promote skin brightening	0.1–1.0%
Metabiotics™ Resveratrol International Patent Application No. WO / 2010 / 011885. Japan Registration # 5308375	<i>Pichia</i> / Resveratrol Ferment Extract	Non-animal derived ingredient offering anti-wrinkle, skin firming / smoothing and anti-inflammatory properties. Promotes extra cellular matrix and collagen synthesis	1.0–5.0%
Musol 20 PF	Yeast Extract	Offers hair and lash thickening capabilities, as well as substantivity on skin and hair	0.5–5.0%
Niacinamide USP, Niacinamide PC	Niacinamide	Enhanced skin barrier function, improved skin elasticity, better skin tone balance	1.0–5.0%
Peptamide™ 6 Patent No. 6641857 and Patent Pending	Hexapeptide-11	Natural peptide that firms skin	0.5–3.0%
Plantsol PE	Yeast Extract & Water	Offers moisturization and skin-softening benefits; film-forming properties	1.0–5.0%
ProSynergen™ DF	<i>Lactobacillus</i> /Algae Extract Ferment	Improves skin barrier function, promotes skin firmness, reduces appearance of fine lines and wrinkles, prevents premature aging	1.0–4.0%
Pseudocollagen JP	Yeast Extract	A moisturizing and strengthening collagen replacement for skin and hair	2.0–10.0%
Pseudofilaggrin JP	Butylene Glycol & <i>Saccharomyces cerevisiae</i> Extract	Moisturizing film former restoring barrier function of stratum corneum	5.0–10.0%
ReGeniStem™ Red Rice	Ozonized <i>Oryza sativa</i> Callus Culture Extract	Anti-aging, Epidermal Hydration and Skin Smoothing	2.0–4.0%
Rice Ferment Filtrate	Water & Rice Ferment Filtrate (Sake)	Offers skin moisturization, smoothing and soothing properties; detoxifies skin	1.0–5.0%
Soy Zymbiosome™ Fermentum Patent No. US2003198700A1	Water & <i>Glycine max</i> (Soybean) Symbiosome Extract	Anti-redness, providing protection against free radicals. Preventative mechanism against photo-aging	0.1–1.0%
Vitazyme™ Product Line Patent No.US5124313 (Vitazyme A Plus)	A wide variety of natural protein complexed vitamins to enhance bioavailability, Vitazymes™ are biotechnologically advanced protein complexed delivery systems that go beyond traditional cosmetic vitamins.		0.5–3.0%
Vivillum™	Water & <i>Strelitzia nicolai</i> Seed Aril Extract	Restores skin luminosity, promotes even skin tone, fights under-eye dark circles, decreases under-eye puffiness, healthy youthful complexion	1.0–3.0%