Home & Personal Care

Lonza

Personal Care Solutions Guide

The Science of Gorgeous™

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Our Science of Gorgeous™ Service

At Lonza Home & Personal Care, we are pushing the boundaries of science to help brand leaders and product innovators around the world to create cleaner, healthier and more effective products to meet the demands of today's consumers. Through our Science of Gorgeous™ Service, we help visionary Personal Care formulators and manufacturers offer value-driven consumers an extensive portfolio of innovative skincare, scalpcare and haircare technologies.

We are a leading supplier of non-traditional and traditional functional solutions, including next-generation preservatives, chassis ingredients, aesthetic modifiers and bioactives.

Working at the frontier of skin-care science, which is no longer bound by conventional chemistry, methods and technology, we equip developers aspiring to reduce the appearance of aging and the environment, enhance skin tone and maintain skin at its healthiest state. Following our holistic approach, we provide the means to protect, maintain and restore scalp health.

With strong capabilities in large and small molecules, as well as biotechnology, we unleash the power of cosmetics to help brands create innovative products that meet every consumer expectation.

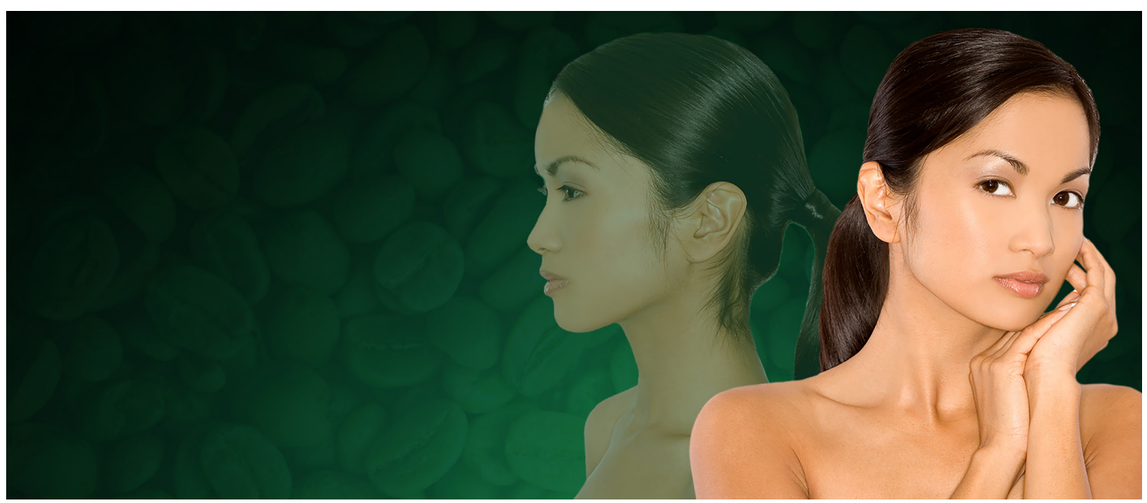
« Partner with us. Let us help you create market-changing personal care products that delight your customers. »

BioActives

Lonza Specialty Ingredients 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.

There are many different certifications for final products as well ingredients, but realistically it all starts with the raw materials. Having your raw materials appropriately certified makes it easier for brands to provide those differentiating attributes, such as "naturally-derived" that are truly impactful to the consumer.

Trade name	INCI name	Use level
Biocell™ SOD*	Superoxide Dismutase	0.1–0.5%
Carnipure® Crystalline	Carnitine	1.0–2.0%
Carnipure® Tartrate	Carnitine Tartrate	1.0–2.0%
H2OBioEV®	Aqua (and) Glycerin (and) *Aphanothece Sacrum* Polysaccharides (and) Galactoarabinan	1.0–3.0%
Marula Oil	Sclerocarya birrea Seed Oil	1.0–10.0%
Metabiotics® Resveratrol/Metabiotics® Resveratrol ECT GEO	*Pichia/Resveratrol Ferment Extract*	1.0–5.0%
Metabiotics® Resveratrol CN	Aqua (and) *Yeast Extract*	1.0–5.0%
Modifect® EV	Aqua (and) *Coffea Arabica* (Coffee) Seed Extract (and) Trehalose (and) Glycerin (and) Carnosine	1.0–3.0%
NAB® Butterbur Extract	Aqua (and) *Petasites Japonicus* Root Extract	1.0–5.0%
NAB® Rhodiola Extract	Aqua (and) Pentylene Glycol (and) *Rhodiola Rosea* Root Extract	1.0–3.0%
Niacinamide USP/Niacinamide USP PC	Niacinamide	1.0–5.0%
ScreenLight® Block	*Physalis Alkekengi Calyx* Extract (and) Caprylic/Capric Triglyceride (and) Beta-Carotene (and) Tocopherol	1.0–3.0%
Solu-Mar™ Elastin SD	Hydrolyzed Elastin	0.5–5.0%
Vitazyme™ A Plus	Retinyl Palmitate / Carrot Polypeptide	0.5–3.0%
XPressEV®	*Linum Usitatissimum* (Linseed) Seed Oil (and) Canola Oil (and) *Morus nigra* Leaf Extract (and) Pearl Extract (and) Tocopherol	1.0–3.0%



Bioactives

Additional Features and Benefits

	Skin											Hair & Scalp Care		Compliance		
Trade name	Antioxidant	Cell metabolism booster	Environmental protection	Exfoliation - cell turnover	Minimizing appearance of aging / wrinkles	Moisturizing	Reducing redness	Skin brightening	Skin firming	Skin soothing	Skin tone	Strengthens / protects hair	Scalp Health	China Compliant *	Naturally derived (ISO 16128)	COSMOS Approved
Biocell™ SOD	■		■							■			■	■		
Carnipure® Crystalline		■		■	■	■					■	■	■	■		
Carnipure® Tartrate		■		■	■	■					■					
H2OBioEV®			■		■	■				■			■	*	>80.0%	■
Marula Oil						■								■	100%	■
Metabiotics® Resveratrol/Metabiotics® Resveratrol ECT GEO					■				■						>95%	
Metabiotics® Resveratrol CN					■				■					■	>95%	
Modifect® EV	■		■		■				■		■			■	98%	
NAB® Butterbur Extract							■			■			■		98.15%	
NAB® Rhodiola Extract	■		■										■	■	67.6-71.2%	
Niacinamide USP/Niacinamide USP PC					■	■				■			■	■		
ScreenLight® Block			■		■			■			■	■	■	*	100%	■
Solu-Mar™ Elastin SD			■		■	■			■			■		■		
Vitazyme™ A Plus[1]	■					■			■		■					
XPressEV®					■				■					■	100%	

[1] Made to Order

* Listed on China IECIC 2015 and in accordance with The China Technical Safety Standards for Cosmetics (2015)

Anti-Dandruff Actives

Lonza's Zinc Omadine® are highly effective bactericide-fungicide, anti-dandruff agents which establish the market standard for any active ingredient solutions in anti-dandruff shampoos. Its high antimicrobial efficacy combined with the acceptability for human use has made them the agents of choice for anti-dandruff shampoo manufacturers worldwide.

PO.Fresh™ is Lonza's newest offering for anti-dandruff control.

			Categories			Features	
Trade name	INCI name	Use level	Hair care	Scalp care	Skin care	Odor control	Anti-dandruff
PO.Fresh™ **	Piroctone Olamine	0.3–1.0%	■	■			■
Zinc Omadine 48% FPS Cosmetic Grade *	Zinc Pyrithione	0.1–2.0%	■	■	■	■	■

* China Compliant

**Please see regulatory status in the PO.Fresh™ data sheet for each listed or exempt country

Specialty Esters – Natural Non-ionic Polyglyceryl Esters

There are many ways to enhance the appearance, feel and functionality of a finished formulation. SYNETH® polyglyceryl esters perform a variety of functions including enhancing formulation characteristics like viscosity and long-term stability.

Trade name	INCI name	Use level
SYNETH™ S7 K RSPO MB Pastille *[1]	Polyglyceryl-3 Stearate	1.0–3.0%
SYNETH™ S8 K RSPO MB Pastille *	Polyglyceryl-6 Distearate	1.0–3.0%
SYNETH™ C15 K RSPO MB	Polyglyceryl-10 Caprylate/Caprate	1.0–5.0%
SYNETH™ L15 K RSPO MB *[1]	Polyglyceryl-10 Laurate	1.0–5.0%
SYNETH™ O13 K RSPO MB *	Polyglyceryl-10 Oleate	1.0–6.0%
SYNETH™ P11 K RSPO MB Pastille	Polyglyceryl-10 Dipalmitate	1.0–3.0%
SYNETH™ S10 K RSPO MB Pastille *	Polyglyceryl-10 Stearate	1.0–5.0%
SYNETH® O3 K RSPO MB *[1]	Polyglyceryl-10 Decaoleate	1.0–5.0%

	Categories		Features								
Trade name	Hair care	Skin care	Cold-process emulsification	Contributes to emulsion stability	COSMOS Approved	NATRUE Certified	Emulsifier	Oil-in-water systems	Rheology enhancer	Sprayable formulations	Water-in-oil systems
SYNETH™ S7 K RSPO MB Pastille *[1]	■	■		■	■	■	■	■			
SYNETH™ S8 K RSPO MB Pastille *	■	■		■	■	■	■	■	■	■	
SYNETH™ C15 K RSPO MB	■	■	■		■	■				■	
SYNETH™ L15 K RSPO MB *[1]	■	■	■			■				■	
SYNETH™ O13 K RSPO MB *	■	■		■	■	■	■	■	■	■	
SYNETH™ P11 K RSPO MB Pastille	■	■		■	■	■	■	■	■		
SYNETH™ S10 K RSPO MB Pastille *	■	■		■	■	■	■	■	■		
SYNETH® O3 K RSPO MB *[1]	■	■	■	■	■	■	■			■	■

* China Compliant

[1] Made-to-order product. Please contact your Lonza representative for availability

Surface Active Agents

Surfactants are the principal agents responsible for the cleansing properties of rinse-off products such as body washes and shampoos. Our line of Amphoterge® surfactants includes many, mild choices for use in a variety of rinse-off applications.

			Categories		Features		
Trade name	INCI name	Use level	Hair care	Skin care	Amphoteric	Sprayable formulations	Surfactant
Amphoterge® K-2	Disodium Cocoamphodipropionate	1.0–10.0%	■	■	■	■	■
Amphoterge® K-J-2-50% *[1]	Disodium Caprylamphodipropionate	1.0–10.0%	■	■	■	■	■
Amphoterge® W *[1]	Sodium Cocoamphoacetate	1.0–10.0%	■	■	■	■	■
Amphoterge® W-2 *	Disodium Cocoamphodiacetate	1.0–10.0%	■	■	■	■	■

* China Compliant

[1] Made to Order

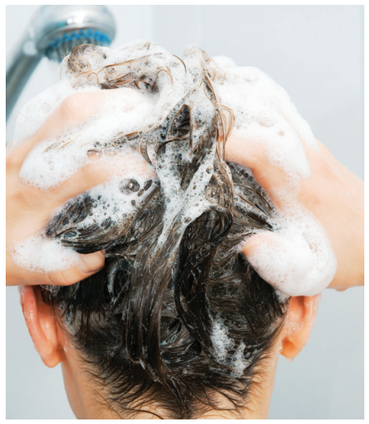
Conditioners & Proteins

For many consumers, hair conditioners and treatments are a key component in their hair care regimen to help achieve the type of hair feel and appearance that they desire. Ingredients such as conditioning quats and proteins can help smooth hair, deliver antistatic properties, improve manageability, reduce frizz, and provide better body and texture.

			Categories		Skin	Hair					
Trade name	INCI name	Use level	Hair care	Skin care	Improved Feel	Anti-Frizz/Anti-Static	Conditioning	Damaged hair	Improved hair feel	Marine-sourced
Carsoquat® 450i *[1]	Cetrimonium Chloride	0.5–2.0%	■		■		■	■	■	
Carsoquat® CT-429 *	Cetrimonium Chloride	0.5–2.0%	■		■		■	■	■	
Carsoquat® SDQ-25 *[1]	Stearalkonium Chloride	0.5–2.0%	■				■	■	■	
Carsoquat® SDQ-85 *[1]	Stearalkonium Chloride	0.5–2.0%	■				■	■	■	

* China Compliant

[1] Made to order



Aesthetic Modifiers

Getting the correct feel is a key characteristic of a successful finished product. Consumers want a product that not only feels good in their hands but also on their hair and skin. Lonza offers a selection of aesthetic modifiers to help you achieve the correct feel for your personal care formulas.

			Categories		Features											
Trade name	INCI name	Use level	Hair care	Skin care	Cold-process emulsification	Contributes to emulsion stability	Colour cosmetics	Emollients	Film-forming	Mattifying effect	Pigment wetting	Plant-based	Rheology enhancer	Sensory modifier	Solubilizing properties	Sprayable formulations
Gel Base BSM5 * [1]	Cyclomethicone (and) Dimethicone (and) Phenyl Trimethicone	5.0–10.0%	■	■	■		■	■		■				■		■
LaraCare® A200 * [2]	Galactoarabinan	1.0–5.0%	■	■		■	■		■		■	■		■	■	
SeaPure® Agarose *	Agarose	1.0–5.0%	■	■		■			■			■	■	■		
ViscUp® 160*	Mineral Oil (and) Hydrogenated Styrene Butadiene Copolymer	5.0–50.0%	■			■							■			■

* China Compliant

[1] Made to order

[2] COSMOS and NATRUE Certified

Emulsifiers, Emollients and Solubilizers

Emulsifiers are vital to bringing two immiscible liquids together into a stable formulation. Lonza emulsifiers can help modify viscosity, improve surfactant slip, and enhance foam. Emollients provide enhanced feel and product play time. Solubilizers help to incorporate oil-based ingredients into a water base. These effective technologies provide formulators a toolbox to build versatile formulations.

			Categories		Features											
Trade name	INCI name	Use level	Hair care	Skin care	Cold-process emulsification	Emulsifier	Emollient	Humectancy	Non-ionic	Plant-based	Solubilizing properties	Sprayable formulations				
Aldo® MSD KFG *	Glyceryl Stearate SE	1.0–5.0%	■	■		■	■		■	■		■				
Aldo® PGHMS KFG *	Propylene Glycol Stearate	1.0–5.0%	■	■		■			■	■		■				
Ethosperse® LA-23 *[1]	Laureth-23	1.0–5.0%	■	■		■			■			■				
Ethosperse® LA-4 *	Laureth-4	1.0–5.0%	■	■		■			■			■				
Glycomul® S KFG *	Sorbitan Stearate	1.0–5.0%	■	■	■	■			■	■		■				
Glycomul® TS KFG	Sorbitan Tristearate	1.0–5.0%	■	■	■	■			■	■		■				
Glycosperse® L-20 KFG *	Polysorbate 20	1.0–5.0%	■	■	■	■			■	■	■	■				
Glycosperse® O-20 KFG *	Polysorbate 80	1.0–5.0%	■	■	■	■			■	■	■	■				
Glycosperse® S-20 KFG *	Polysorbate 60	1.0–5.0%	■	■	■	■			■	■	■	■				
Glycosperse® TS-20 KFG	Polysorbate 85	1.0–5.0%	■	■	■	■			■	■	■	■				
Lonzest® GDL *[1]	Glyceryl Dilaurate	1.0–5.0%	■	■	■	■	■		■	■		■				
Lonzest® GMO *	Glyceryl Oleate	1.0–5.0%	■	■	■	■	■		■	■		■				
Lonzest® GMS-C *	Glyceryl Stearate	1.0–5.0%	■	■		■	■		■	■		■				
Lonzest® GMS-D *	Glyceryl Stearate SE	1.0–5.0%	■	■		■	■		■	■		■				
Lonzest® MSA *	Glyceryl Stearate (and) PEG-100 Stearate	1.0–5.0%	■	■		■			■			■				
Lonzest® SML *	Sorbitan Laurate	1.0–5.0%	■	■	■	■			■	■		■				
Lonzest® SMO *	Sorbitan Oleate	1.0–5.0%	■	■	■	■			■	■		■				
Lonzest® SOC *	Sorbitan Sesquioleate	1.0–5.0%	■	■	■	■			■	■		■				
Lonzest® STO *	Sorbitan Trioleate	1.0–5.0%	■	■	■	■			■	■		■				
Natrulon® H-6 * [1, 2]	Polyglycerin-6 (and) Aqua	2.0–10.0%	■	■				■	■	■		■				
Natrulon® H-10 * [1, 2]	Polyglycerin-10 (and) Aqua	2.0–10.0%	■	■				■	■	■		■				
Pegosperse® 100-S	PEG-2 Stearate	1.0–5.0%	■	■		■			■	■		■				
Pegosperse® 1500 MS	PEG-30 Stearate	1.0–5.0%	■	■		■			■			■				
Pegosperse® 400 DL *	PEG-8 Dilaurate	1.0–5.0%	■	■		■			■			■				
Pegosperse® 400 DS Special *[1]	PEG-8 Distearate	1.0–5.0%	■	■		■			■			■				
Pegosperse® 400 DS VEG *[1]	PEG-8 Distearate	1.0–5.0%	■	■		■			■			■				
Pegosperse® 400 ML *	PEG-8 Laurate	1.0–5.0%	■	■		■			■			■				
Pegosperse® 50 DS *	Glycol Distearate	1.0–5.0%	■	■		■			■			■				
Pegosperse® 50 MS *[1]	Glycol Stearate	1.0–5.0%	■	■		■			■			■				

* China Compliant

[1] Made to Order

[2] NATRUE Certified

Preservation Systems

A World In Change, Protected.™

Selecting preservation systems that effectively protect Cosmetic and Personal Care formulations and are consistent with consumers' desires, country regulations and technical requirements is critical. Lonza is a world leader in microbial control, providing effective and innovative sciencebased solutions to destroy or selectively inhibit the growth of harmful microorganisms. Lonza's Personal Care portfolio provides a comprehensive range of preservation systems, offering:

- Natural & organic
- Minimal INCI labels
- Safe and recognizable ingredients
- Sustainability
- Transparent supply chain
- Ethical and Environmentally- friendly claims

Trade name	INCI name	Use level	Recommended pH range	Physical form
Cosmocil® CQ	Polyaminopropyl Biguanide	0.2–1.5%	3–10	Liquid
Geogard® 111A	Dehydroacetic Acid	0.1–0.6%	2–6.5	Powder
Geogard® 111S	Sodium Dehydroacetate	0.1–0.6%	2–6.5	Powder
Geogard® 221	Dehydroacetic Acid (and) Benzyl Alcohol (and) Aqua	0.2–1.1%	2–7	Liquid
Geogard® ECT	Benzyl Alcohol (and) Salicylic Acid (and) Glycerin (and) Sorbic Acid	0.6–1.0%	3–8	Liquid
Geogard® LSA [1]	Butylene Glycol (and) Benzyl Alcohol (and) Sorbic Acid (and) Caprylic / Capric Triglyceride (and) Lauryl Alcohol (and) Myristyl Alcohol	1.0–2.0%	3–6	Liquid
Geogard Ultra® [2]	Gluconolactone (and) Sodium Benzoate	0.75–2.0%	3–6.5	Powder
Glycacil® 2000	Iodopropynyl Butylcarbamate	0.15–0.5%	2–10	Liquid
Glycacil® L	Iodopropynyl Butylcarbamate	0.03–0.5%	2–10	Liquid
Glydant®	DMDM Hydantoin	0.1–0.6%	2–10	Liquid
Glydant® LTD	DMDM Hydantoin	0.1–0.6%	2–10	Liquid
Glydant® 2000	DMDM Hydantoin	0.1–0.6%	2–10	Liquid
Glydant Plus®	DMDM Hydantoin (and) Iodopropynyl Butylcarbamate	0.075–0.18%	2–10	Granule
Glydant Plus® Liquid	DMDM Hydantoin (and) Iodopropynyl Butylcarbamate	0.15–0.36%	2–10	Liquid
Isocil® PC	Methylchloroisothiazolinone (and) Methylisothiazolinone	0.05–0.1%	3–9	Liquid
Lonzagard® Benzethonium Chloride	Benzethonium Chloride	0.1–0.5%	6–9	Powder
Lonzaserve® PC	DMDM Hydantoin (and) Methylchloroisothiazolinone (and) Methylisothiazolinone	0.25–0.6%	3–9	Liquid
Mikrokill® COS	Phenoxyethanol (and) Caprylyl Glycol (and) Chlorphenesin	0.75–1.5%	3–8	Liquid
Spectradyne™	Chlorhexidine Digluconate	0.25–1.5%	6–8	Liquid

[1] Made to order

[2] NATRUE Certified – Naturally derived according to ISO 16128 standard

Preservation Systems

Additional Features and Benefits

	Solubility		Segments					Attributes		Features					
Trade name	Water-soluble	Oil-soluble	Baby	Wipes	Rinse-off	Leave-on	Oral	Bacteristatic	Fungistatic	COSMOS Approved	Soil Association	Halal Certified	Vegan Compliant	Non-GMO Compliant	China Compliant
Cosmocil® CQ	■		■	■	■	■	■	■							■
Geogard® 111A		■	■	■	■	■	■		■	■	■		■	■	■
Geogard® 111S	■		■	■	■	■	■		■	■	■		■	■	■
Geogard® 221		■	■	■	■	■	■	■	■	■	■		■	■	■
Geogard® ECT	■			■	■	■	■	■	■	■			■	■	■
Geogard® LSA		■	■	■	■	■	■	■	■				■	■	■
Geogard Ultra®	■		■	■	■	■	■	■	■	■	■	■	■	■	■
Glycacil® 2000	■			■	■	■			■			■	■	■	
Glycacil® L		■		■	■	■			■			■	■	■	■
Glydant®	■		■	■	■	■	■	■				■		■	■
Glydant® LTD	■		■	■	■	■	■	■				■		■	■
Glydant® 2000	■		■	■	■	■	■	■				■		■	■
Glydant Plus®	■			■	■	■		■	■			■		■	■
Glydant Plus® Liquid	■			■	■	■		■	■			■		■	■
Isocil® PC	■				■			■	■						■
Lonzagard® Benzethonium Chloride	■		■	■	■	■		■							■
Lonzaserve® PC	■				■			■	■						■
Mikrokill® COS		■	■	■	■	■		■	■						■
Spectradyne™	■		■	■	■	■	■	■							■

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