Delivery Systems

Technology is commonly applied to increase the stability and functionality of many active ingredients. Encapsulation systems allow for controlled release of actives, increased skin absorption and prolonged active effect. These delivery systems, or "vehicles", can be loaded with a variety of active ingredients. We are proud to offer three different types of delivery systems: Brookosome™, ChronoSphere™ and SMEC.

Product	INCI Designation	Properties	Use Level
Brookosome™ Product Li	ine Control of the Co		
Brookosome™ Product Line	Water & Phospholipids & (Active)	Unilamellar phospholipid liposomes that stabilize actives. A greater penetration of the active is achieved	
Brookosome™ MT PF	Water & Phospholipids		2.0-10.0%
Brookosome™ ACE PF	Water & Phospholipids & Tocopheryl Acetate & Retinyl Palmitate & Ascorbyl Palmitate		2.0-10.0%
Brookosome™ ACEB5	Lecithin & C12-15 Alkyl Benzoate & Tocopheryl Acetate & Retinyl Palmitate & Ascorbyl Palmitate & Pantothenic Acid		2.0-10.0%
Brookosome™ ACEBC PF	Water & Phospholipids & Retinyl Palmitate & Tocopherol & Ascorbyl Palmitate & Beta-Carotene		2.0-10.0%
Brookosome™ SOD PF	Water & Lecithin & Superoxide Dismutase		2.0-10.0%
Brookosome™ TRF™ PF	Water & Phospholipids & Saccharomyces Lysate Extract		2.0-10.0%
Brookosome™ Willowbark PF	Water & Salix nigra (Willow) Bark Extract & Phospholipids		2.0-10.0%



Product	INCI Designation	Properties	Use Level
Chronosphere™ Product Li	ine		
Chronosphere™ Product Line Patent No. US5118779	Acrylates / Carbamate Copolymer & (Active)	Controlled release polyurethane encapsulates which are temperature and dissolution resistant. Entrapped active can be lipophilic or hydrophilic	
ChronoSphere™ MT PF	Acrylates / Carbamate Copolymer		1.0-10.0%
ChronoSphere™ Collagen Marine	Acrylates / Carbamate Copolymer & Collagen		1.0-10.0%
ChronoSphere™ Hyaluronic	Acrylates / Carbamate Copolymer & Sodium Hyaluronate		1.0-10.0%
ChronoSphere™ Planell™ EFA	Acrylates / Carbamate Copolymer & Squalane & Squalene & Phytosterol & Glycolipids & Tocopherol & Omega 6-Linoleic Acid & Omega 6-Linolenic Acid		1.0-10.0%
ChronoSphere™ Vitazyme™A Plus	Acrylates / Carbamate Copolymer & Retinyl Palmitate / Carrot Polypeptide		1.0-10.0%
ChronoSphere™ Vitazyme™ C	Acrylates / Carbamate Copolymer & Ascorbic Acid Polypepetide		1.0-10.0%
SMEC Product Line			
SMEC Product Line	Sub Micron Emulsion Concentrates	Concentrated aqueous system combining oil-soluble ingredients ideal for cold processed spray formulations. Small emulsion droplet size (50–300nm). Lower emulsifier/surfactant concentrations	
SMEC Concentrate #1 PF	Trimethylolpropane Tricaprylate / Tricaprate & Glycerin & Cetearyl Alcohol & Ceteareth-20 & Glyceryl Stearate & PEG-100 Stearate & Steareth 2 & Dimethicone & Ceteth-24 & Choleth-24 & Phospholipids	Delivery system which absorbs quickly with no greasy after-feel while providing excellent moisturization for the skin	20.0-60.0%
SMEC DHA PF	Trimethylolpropane Tricaprylate / Tricaprate & Dihydroxyacetone & Glycerin & Cetearyl Alcohol & Ceteareth-20 & Glyceryl Stearate & PEG-100 Stearate & Steareth-2 & Dimethicone & Ceteth-24 & Choleth-24 Phospholipids	Containing 10 % DHA, this SMEC system provides a sunless tanning product that allows for an even tan with natural color and ease of application	20.0-60.0%





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Lonza Ltd Muenchensteinerstrasse 38 4002 Basel Tel +41 61 316 81 11 This product information corresponds to our knowledge on the subject at the date of publication and we assume no obligation to update it. It is offered without warranty, and is intended for use by persons who are experienced and knowledgeable in the field and capable of determining the suitability of ingredients for their specific applications. Because we cannot anticipate all variations in actual end-use conditions, we assume no liability and make no warranty in connection with your use of our products or product information. We do not guarantee the efficacy of active ingredients, delivery systems, functional ingredients, rheology modifiers, natural or botanical products, preservative and protection systems or proteins in any specific application or use. The information we provide is not intended to substitute for testing. You should perform your own tests to determine for yourself the suitability and efficacy of ingredients in your application and conditions of use. The information we provide should not be construed as a license to operate under or a recommendation to infringe any patent or other intellectual property right, and you should ensure that your use does not infringe any such rights. Our products are for industrial use only. WE MAKE NO WARRANTY (INCLUDING AS TO MERCHANTABILITY OR FITNESS FOR PURPOSE) OF ANY KIND, EXPRESS OR IMPLIED, OTHER THAN THAT OUR PRODUCTS CONFORM TO THE APPLICABLE PRODUCT SPECIFICATIONS.

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