

DERMAL FILLER PRODUCT COMPARISON

Manufacturer	Product(s)	Key Component	Description	Physician Price	Regulatory Status
Alcon Laboratories, Inc.	Silikon 1000	Silicone	Purified, medical grade polydimethylsiloxane oil – 1000 cs. For microdroplet injection.	\$100 per vial	Silikon 1000 is approved by the FDA for retinal detachments, but not for facial filler indications. Off label use only.
Allergan / Inamed	Zyderm 1 Zyderm 2 Zyplast	Bovine Collagen	Purified bovine-based collagen 35 mg/ml. Purified bovine-based collagen 65 mg/ml. Purified bovine-based collagen 35 mg/ml, cross-linked with glutaraldehyde.	\$145 \$150 \$165	Worldwide Worldwide Worldwide
	CosmoDerm CosmoPlast		Purified human-based collagen 35 mg/ml. Purified human-based collagen 35 mg/ml, cross-linked with glutaraldehyde. *All collagen products contain 0.3% lidocaine	\$205 \$235	Worldwide Worldwide
	Juvéderm 24 HV – HydraFill 1 – Europe Juvéderm 30 HV – HydraFill 2 – Europe Juvéderm 30 – HydraFill 3 – Europe	Non-animal Hyaluronic Acid	Purified avian large particle size HA 5.5 mg/ml. Non-animal, cross-linked monophasic hyaluronic acid. Non-animal, cross-linked monophasic hyaluronic acid.	\$200 – \$225 \$200 – \$225 \$245	Worldwide Worldwide Worldwide
Anteis S.A.	Esthélis – Soft 22.5 mg/ml Esthélis – Basic 20 mg/ml Esthélis – Men 22.5 mg/ml	Hyaluronic Acid	Non-animal 5 phase cross-linked hyaluronic acid with CPM technology – Cohesive Polydensified Matrix.	\$100 per 0.6 ml \$125 per 1.0 ml	Approved in Europe, Canada, Israel, South Korea and other markets globally.
Artes Medical	Artefill	PMMA	20% polymethylmethacrylate (PMMA) – 32 to 40 microns – 80% purified bovine collagen gel and 0.3% lidocaine.	\$700 – \$800 per cc	Worldwide
BioForm	Radiesse	CaHA	Synthetic calcium hydroxylapatite (CaHA-55.7%) microspheres, 25 – 45 microns, suspended in an aqueous polysaccharide gel (1.3% sodium carboxymethylcellulose USP, 6.4% glycerin USP & 36.6% water USP).	\$250	Worldwide
BioPolymer GmbH & Co. KG	MATRIDEX® MATRIDUR® MATRIGEL®	DEAE Sephadex	MATRIDEX: synthetic hyaluronic acid sodium salt 25 mg, hypromellose 15 mg, positively charged DEAE sephadex particles 25 mg (cross-linked dextran). MATRIDUR: synthetic stabilized hyaluronic acid sodium salt 25 mg and hypromellose 5 mg. MATRIGEL: stabilized HA 12.25 mg.	\$250 – \$350	CE mark – no FDA approval.
ColBar LifeScience Ltd.	EVOLENCE 30 EVOLENCE Breeze	Porcine Collagen	35 mg of cross-linked porcine (tendons) collagen – glycation with a natural sugar – dispersed in a phosphate buffered saline solution. Glymatrix technology provides a collagen molecule free of telopeptides.	\$250+	Approved in Europe, Canada, Israel, South Korea and other markets globally. Not yet approved by the FDA. For investigational use only in U.S.
Contura International A/S	Aquamid® Aquamid® Reconstruction	PAAG	2.5% cross-linked hydrophilic polyacrylamide gel (PAAG) and 97.5% water.	\$350+	Not yet approved by the FDA – trials under way. For investigational use only in U.S. CE marking: CE 0543 – March 2001. Sold in more than 30 countries around the world.
Dermabiol Institute of Kuhra Vital GmbH	Rhegecoll	PMMA	Rhegecoll: 40% bovine collagen from U.S. calves, 15% A.D.N., 5% embryoblastos (stem cell) 10% polymethacrylate, 15% copolymer 4-G, 15% stabilizer / emulsifier.	n/a	Not approved in U.S., worldwide registrations pending.

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Dermatech (Paris)	DermaLive Dermadeep	HEMA / EMA	60% stabilized hyaluronic acid plus 40% acrylic hydrogel (hydroxyethylmetacrylate – HEMA and ethylmetacrylate (EMA) co-polymer particles by volume. DermaLive – 200 mg 45 – 65 micro beads, 14.4 mg HA. Dermadeep – 200 mg 80 – 110 micro beads, 14.4 mg HA.	n/a	DermaLive – Approved in Europe 1998, Canada 2003. Dermadeep – Approved in Europe 1998, Canada 2003.
Dermik / Aventis	Sculptra – U.S., also known as New-Fill or New-Filla	PLLA	Poly-L-Lactic acid (PLLA) hydrogel belonging to the family of aliphatic polyesters. Synthesized from corn.	\$480 per vial	FDA has approved Sculptra as the only product for the restoration and/or correction of the signs of facial fat loss (lipoatrophy). Approved in Europe in 2000 as NewFill – 2004 as Sculptra for facial aesthetic use.
Fascia Biosystems	Fascian	Fascia	Human allograft material – fascia, collected from human cadaver donors. Reconstituted with sterile normal saline, 0.5% lidocaine.	\$250+	Fascian is a tissue product as classified by the FDA, there are no off-label uses – hence a physician can use as desired.
FibroGen, Inc.	FG-5017 (rhCIII) – synthetic human collagen (type III).	Human Collagen	FG-5017 dermal filler is comprised of a cross-linked formulation of recombinant human collagen type III in saline with lidocaine. Formed collagens based on human DNA sequences in yeast cultures.	n/a	Pending approval. Completed human safety clinical trial of recombinant human collagen type III. The pivotal efficacy and safety study required for regulatory approval of FG-5017 is expected to begin in 2005.
FuHua High Molecular Matter Company, Ltd.	Amazingel	PAAG	Hydrohilic Polyacrylamide Gel.	n/a	Approved in Asia – China in 2000.
FzioMed, Inc.	Laresse Dermal Filler	Carboxymethylcellulose, Polyethylene Oxide	Non-permanent, long lasting, ultra smooth dermal filler, containing no bacterial or animal by-products, no cross-linking chemicals and no gel particles.	n/a	CE mark approved.
Isolagen, Inc.	Isolagen	Autologous fibroblast cells	Isolagen – autologous cellular system – cultured human fibroblasts.	\$900 – \$1000	Available only in UK. Filed IND with FDA – approved. Special protocol assessment & biologics license application approved – in stage III trials.
Laboratories ORGéV	MacDermol S MacDermol R	Avian Hyaluronic Acid / Chitosan	MacDermol S – Avian non cross-linked hyaluronic acid (2.1%) sodium chloride. MacDermol R – Avian cross-linked hyaluronic acid (3.4%) chitosan chondroitin sulfate sodium chloride.	n/a	CE mark – no FDA approval.
LCA Pharmaceutical	Hyaluderm	Hyaluronic Acid	Hyaluderm – non cross-linked sodium hyaluronate, 2.0% to 2.5%.	\$150	CE mark – no FDA approval.
Medicis	Restylane Restylane Touch Restylane Perlane Restylane Sub-Q	NASHA	NASHA gel – a non-animal hyaluronic acid, stabilized with BDDE. The differentiation is in the size of the NASHA particles, to assure a tissue-tailored range of products. Restylane Touch – 500,000 particles per ml. Restylane – 100,000 particles per ml. Restylane Perlane – 10,000 particles per ml. Restylane Sub-Q – 1,000 particles per ml.	\$275 per cc	Restylane is approved in the U.S. and Canada. Restylane Perlane and Restylane Fine Lines are approved in Canada / pending FDA approval. Sub-Q is in the approval process.

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Mentor Corporation in conjunction with Genzyme Corporation	Puragen Puragen Plus Prevelle Prevelle Plus	Hyaluronic Acid	Puragen/Puragen Plus: Non-animal derived double cross-linked (DXL technology) hyaluronic acid – 20 mg/ml. Prevelle/Prevelle Plus: Non-animal derived cross-linked hyaluronic acid, 5.5 mg/ml. Mentor's Plus products contain lidocaine integrated directly into the formulation.	\$270 per cc	Puragen/Puragen Plus: Europe clearance – CE mark. FDA clearance pending. Prevelle/Prevelle Plus: Europe clearance – CE mark. FDA clearance pending.
Merz Pharma GmbH & Co. KGaA	Belotero Soft – 22.5 mg/ml Belotero Basic – 20 mg/ml	Hyaluronic Acid	Non-animal double phase cross-linked hyaluronic acid – via biofermentation – with CPM technology – Cohesive Polydensified Matrix.	\$250 per box of 2 syringes.	CE mark – October 2004 – Merz received the marketing rights for Germany, Austria, Switzerland, Russia, and Italy from Anteis SA. U.S. approval pending.
Polymekon	BIO-ALCAMID – Face BIO-ALCAMID – Lips BIO-ALCAMID – Body Bioinblue – Lips Bioinblue – DeepBlue	Poly – Acrylamide PVA	BIO-ALCAMID – 96% water and 4% synthetic reticulate polymer (poly-Alkyl-mide). Lips is soft and compact. Face has the same composition (it is not a dilution), Body has the same consistency as the Face form, but contains more material. Bioinblue – PVA (polyvinyl alcohol 8%) and water (92%).	\$250+	BIO-ALCAMID – CE mark in 2001 – no FDA approval. Bioinblue – CE mark in 2003 – no FDA approval.
ProCytech SA	Outline Fine Outline Original Outline Ultra Evolution	Poly – Acrylamide-co-DADMA	Outline is absorbable poly (acrylamide-co-DADMA) gel. Evolution is a mixture of microscopic soft spheres of polyvinyl in a viscoelastic gel of poly (acrylamide-co-DADMA) gel.	\$225+	Approved in Europe.
Prollenium Medical Technologies	HylaNew HylaNew Ultra Hyladex	Hyaluronic Acid	HylaNew – cross-linked HA 25 mg, hypromellose 12.5 mg. HylaNew Ultra – high viscosity, cross-linked, reticulated hyaluronic acid 25 mg, hypromellose 15 mg. Hyladex – cross-linked reticulated hyaluronic acid 25 mg, hypromellose 15 mg, dextronomer DEAE 25 mg.	\$175 – \$225 per cc	Approved in Canada. U.S. approval pending.
Q-Med AB	Restylane Restylane Touch Restylane Perlane Restylane Sub-Q Restylane Lipp Restylane Vital	NASHA	NASHA gel – a non-animal hyaluronic acid, stabilized with BDDE. The differentiation is in the size of the NASHA particles, to assure a tissue-tailored range of products. Restylane Touch – 500,000 particles per ml. Restylane – 100,000 particles per ml. Restylane Perlane – 10,000 particles per ml. Restylane Sub-Q- 1,000 particles per ml.	\$275 per cc	Restylane is approved worldwide with the exception of Japan. Restylane Perlane, Restylane Sub-Q and Restylane Touch are approved worldwide with the exception of Japan and U.S. U.S. approval in progress. Restylane Lipp approved in Europe.
Rofil / Philoderm	REVIDERM Rofilan Beautical 2 Beautical 5	Dextran-Sephadex Hyaluronic Acid Poly Acrylamide	REVIDERM – 25 mg/ml sephadex (Dextran) 40-60 microns, 20 mg/ml cross-linked synthetic hyaluronic acid. Rofilan – 20 mg/ml cross-linked hyaluronic acid. Beautical 2 – Polyacrylamid gel. Beautical 5 – Polyacrylamid gel.	REVIDERM: \$336 Rofilan: \$235 Beautical 2: \$150 Beautical 5: \$190	Approval in Europe, Canada and most other countries. Not approved in the U.S.
Teoxane SA	Teosyal 27G Teosyal 30G	Hyaluronic Acid	Monophasic cross-linked non-animal hyaluroic acid gel macro-molecules – 25 mg/ml.	\$250 per box of 2 syringes.	Europe CE mark. U.S. approval in progress.