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Princess® FILLER Lidocaine

Technical factsheet

Princess® FILLER Lidocaine¹	
Indication	to correct moderate to severe facial wrinkles and folds and to increase lip volume, for reconstructive treatment, for instance, of facial lipoatrophy, debilitating scars, or morphological asymmetry
Injection area	mid to deep dermis
Ingredients	
Concentration HA	2.3% (23 mg/mL) high molecular weight hyaluronic acid of non-animal origin
Crosslinking agent	BDDE (concentration ≤ 2 ppm)
Additional ingredients	phosphate buffer, NaCl, 0.3% lidocaine hydrochloride
Packaging	
Packaging unit	1 box of 1 mL syringe
Needle	2×27G ½" thin wall Terumo™ needles (CE 0197)
Duration	
Est. duration in the skin	up to 9 months²

Crosslinking

The product is a biphasic gel containing a crosslinked and a non-crosslinked phase mixed in a defined ratio (crosslinked phase 91%, non-crosslinked phase 9%). These specifications are not to be confused with the crosslinking degree of the products, since a crosslinked phase contains non-crosslinked HA as well.

Rheology

Purpose of rheological measurements is to evaluate the physical characteristics of HA fillers. The storage modulus G' represents a suitable parameter to determine the stiffness of HA-based, crosslinked products like Princess® FILLER Lidocaine, where the elasticity is more pronounced than the viscosity.

Test method G' (ω =1s⁻¹, f=0.16 Hz, T=25°C)

Result 135,690 mPa³

Extrusion force

Extrusion force measurements are conducted to determine the force [N] needed to eject the gel from the syringe. The tests are always performed with the enclosed needle. A low and constant extrusion force is beneficial for smooth and predictable results.

Needle 27G ½" thin wall Terumo™ (CE 0197)

Result 10 N⁴

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Microbiological parameters

Endotoxins

Endotoxins are components of gram-negative bacteria membranes and are released when the bacterial cells are disrupted (e.g. during sterilisation). Therefore, the products are tested to assure that the endotoxin concentration lies below the predefined specification limits.

Test method according to Ph.Eur.⁵

Result virtually free on endotoxins⁶

Sterility

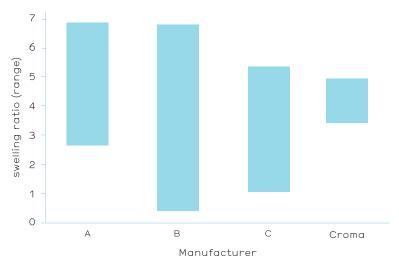
Croma HA fillers are steam sterilised within the syringe.

Swelling ratio

Water uptake influences the volumising effect of HA fillers. Therefore, the in vitro swelling behaviour is a useful parameter. Croma HA fillers show a reproducible swelling in vitro within the entire product range (compared to the competitor product ranges A, B, C in the table). Furthermore, Croma HA fillers have a very low batch to batch variability, which contributes to the predictability of the results.

Test method

gravimetric measurement to determine the ability of a gel to take-up PBS (phosphate buffered saline)

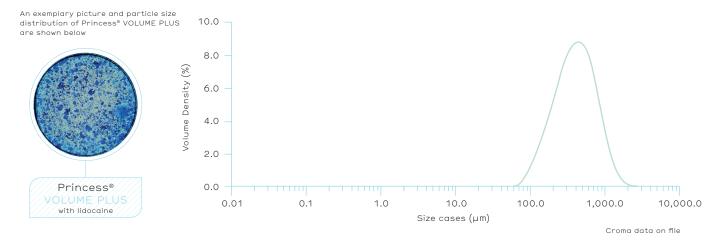


Croma data on file

Gel particles

Croma's crosslinked hyaluronic acid fillers are characterised by smooth HA gel-particles with a typical diameter around 0.5 mm. Particle staining is useful to illustrate the structure of HA fillers: a homogeneous composition of smooth gel particles made of crosslinked hyaluronic acid.

Test method crosslinked gels are placed on petri dishes and treated with a methylene blue solution, leading to particle staining which is then photographed



¹CE0120 °CPH-401-201324 ³ Batch: 105013, specification limits: 45,000-195,000 mPa (G') ⁴ Batch: 105007, specification limits: 5-20 N ⁵ Ph.Eur. = European Pharmacopoeia ⁴ EU = Endotoxin Unit according to Ph.Eur., Princessª FILLER Lidocaine < 5 EU/mL

The medical practitioner confirms having informed the patient of a likely risk associated with the use of the medical device in line with its intended use. For risks and adverse events associated with the use of the product consult the instructions of use.