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Technical factsheet

saypha® FILLER	
Indication	to correct moderate to severe facial wrinkles and folds and to increase lip volume ¹ , 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 hydrochloride²
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 months ³

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 saypha® FILLER, where the elasticity is more pronounced than the viscosity.

Test method G' (ω =1s⁻¹, f=0.16 Hz, T=25°C) Result 126,400 mPa⁴ | 135,690 mPa⁵

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 N⁶

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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 sterilization). Therefore, the products are tested to assure that the endotoxin concentration lies below the predefined specification limits.

Test method according to Ph.Eur.⁷
Result virtually free on endotoxins⁸

Sterility

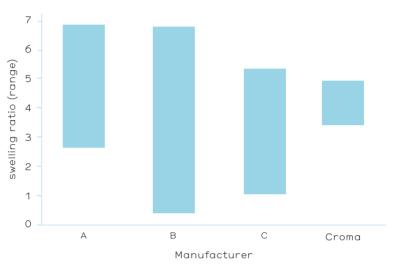
Croma HA fillers are steam sterilized within the syringe.

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)

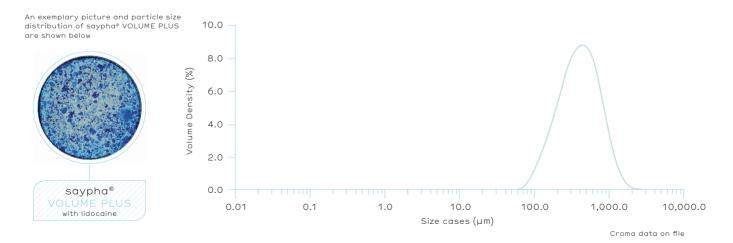


Croma data on file

Gel particles

Croma's crosslinked hyaluronic acid fillers are characterized 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



¹only for saypha® FILLER with lidocaine, ² available with (CE0120)/without (CE0459) lidocaine, ³ Arruda et al., Evaluation of Clinical Safety and Effectiveness of Hyaluronic Acid-based Temporary Dermal Filler Used in Nasolabial Folds 2013, ⁴ Batch: 903166, specification limits: 70,000–100,000 mPa.s (dynamic viscosity), ⁵ Batch: 105013, specification limits: 45,000–195,000 mPa (6'), ⁶ Batch: 903171 & 105007, specification limits: 5-20 N, ² Ph.Eur. = European Pharmacopoeia, ® EU = Endotoxin Unit according to Ph.Eur., specification limits saypha® FILLER < 0.5 EU/mL, saypha® FILLER Lidocaine < 5 EU/mL