

### Appendix A: Lactic acid sting test.

Sensitivity was determined using a blinded 10% aqueous lactic acid test on the nasolabial fold and cheek area, with water as a control on the contralateral side. Stinging was rated on a 4-point scale at 2.5, 5, and 8 min (if required). A cumulative score  $\geq 3$  indicated sensitive skin, qualifying for study inclusion.

### Appendix B

**Table S1:** Safety measurements assessed induction phase.

Flow-chart induction phase																					
Activity	V 1 0 h	V2	V3	V4	V5	V6	V7	V8	V9	V 10	V 11	V 12	V 13	V 14	V 15	V 16	V 17	V 18	V 19	V 20	V 21
Explaining of trial procedures to participants	X																				
Written informed consent	X																				
Inclusion/exclusion criteria	X																				
Demographic information	X																				
Medical history/prior treatments	X																				
Clinical examination	X																				
Patch application	X		X		X			X		X		X			X		X		X		
Patch removal		X		X		X			X		X		X			X		X		X	
Concomitant treatment recording	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
#Reading skin reaction			X		X		X			X		X		X			X		X		X
Adverse events	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
*Final report																					

\*Filled at the end of the study. V: Visit, X: Activity performed at particular visit, Blank spaces: Activities not applicable.

**Table S2:** Safety measurements assessed challenge phase.

Activity	V 22 (0 h)	V 23 (24 h)	V 24 (24 h after patch removal)	V 25 (48 h after patch removal)	V 26 (72 h after patch removal)
Patch application	X				
Patch Removal		X			
Concomitant treatment recording	X	X	X	X	X
Reading skin reaction			X	X	X
Adverse Events	X	X	X	X	X
*Final Report					X

\*Filled at the end of the study. V: Visit, X: Activity performed at particular visit, Blank spaces: Activities not applicable.

**Table S3:** Draize scale for scoring the test site (BIS - IS 4011: 2018, Third Revision guidelines, Clause 7. 1. 6. 5. 3).

Score for erythema/ dryness/wrinkles (A)	Score for edema (O)
0=No reaction	0=No reaction
1=Very slight erythema/dryness with shiny appearance 2=Slight erythema/dryness/wrinkles	1=Very slight edema 2=Slight edema
3=Moderate erythema/dryness/wrinkles	3=Moderate edema
4=Severe erythema/wrinkles/scales	4=Severe edema

**Table S4:** ICDRG scale. Symbol morphology interpretation.

Symbol	Morphology	Interpretation
–	No reaction	Negative reaction
?+	Faint erythema only	Doubtful reaction
+	Erythema, infiltration, possibly papules	Weak positive
++	Erythema, infiltration, papules, vesicles	Strong positive
+++	Intense erythema, infiltration, coalescing vesicles	Extreme positive
IR	Different types of reactions (soap effect, vesicles, blister, necrosis)	Irritant

ICDRG: International contact dermatitis research group, IR: Irritant reaction.