

## Supporting information

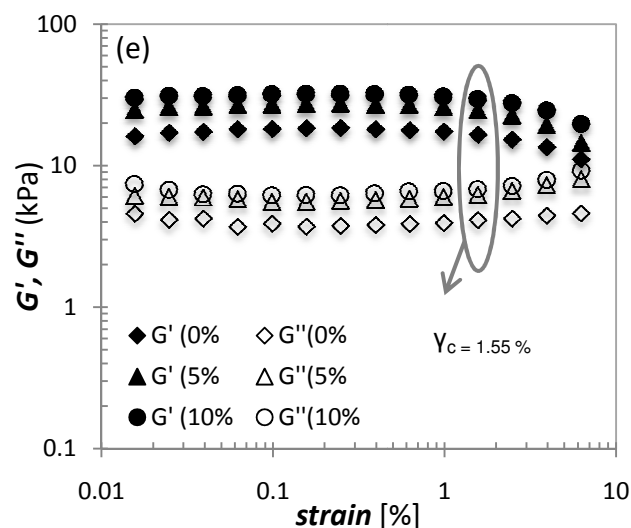
### In vivo skin irritation evaluation method and evaluation summary

Table 1 Draize-FHSA Model

Number of animals	6 rabbits (clipped)
Test sites	2 × 1 inch <sup>2</sup> sites on dorsum One site intact, the other abraded
Test materials	Applied undiluted to both test sites Liquids: 0.5ml; Solids/semisolids: 0.5g.
Occlusion	1 inch <sup>2</sup> surgical gauze over each test sites Rubberized cloth over entire trunk
Occlusion period	24 hours
Assessment	Visual scoring system after 24, 48, and 72hours

Table 2 Draize-FHSA Scoring System

Reaction	Score
Erythema and eschar formation	
No erythema	0
Very slight erythema (barely perceptible)	1
Well-defined erythema	2
Moderate to severe erythema	3
Severe erythema (beet redness) to slight eschar formation (injuries in depth)	4
Edema formation	
No edema	0
Very slight edema (barely perceptible)	1
Slight edema (edges of area well defined by definite raising)	2
Moderate edema (raised approximately 1mm)	3
Severe edema (raised more than 1mm and extending beyond the area of exposure)	4



Small deformation tests ( $\gamma = 0.015 \sim 7\%$ ) for sample with CHC/SAL weight ratio = 1/1.5 having varying glycerol content, prepared by exposure to 3 % w/w  $\text{CaCl}_2$ .