



# ABS Viola Tricolor Extract PF

## *In-vivo* Anti-wrinkle Activity

### Abstract:

The anti-wrinkle effects of **ABS Viola Tricolor Extract PF** were examined using a panel of 25 female subjects. Silicone mold replicas of test subjects' outer eye area were used to determine a decrease in total wrinkle surface, total wrinkle length and total number of wrinkles.

### Materials and Methods:

Silicone Molds were made of the test subject's outer eye area before the trial began and again after 28 days of treatment. A lotion was formulated which contained 2% **ABS Viola Tricolor Extract PF**, subjects were asked to apply the lotion to the outer eye area of their faces twice daily for a period of 28 days.

The anti-wrinkle effects of **ABS Viola Tricolor Extract PF** were determined using a profilometer equipped with an image analyzer. Measurements were taken at a room temperature of  $22 \pm 2^\circ\text{C}$  with a relative humidity between 40 and 60%

### Base Lotion Test Formula:

Trade Name	INCI	Supplier	Percent (%)
Lanol 99	Isononyl isononanoate	Seppic	7.0
Montanov 202	Arachidyl alcohol/Behenyl Alcohol/Arachidyl glucoside	Seppic	5.0
Lanol 1688	Cetearyl Octanoate	Seppic	4.0
Propylene glycol	Propylene Glycol		4.0
<b>ABS Viola Tricolor Extract PF</b>	Aqua & Hydrolyzed Viola Tricolor Extract & Leuconostoc/Radish Root Ferment Filtrate	Active Concepts LLC	2.0
Simulsol 165	PEG-100 Stearate Glyceryl Stearate	Seppic	2.0
Glycerol	Glycerin	-	2.0
Glyceryl Stearate	Glyceryl Stearate	-	1.0
Cetyl Alcohol	Cetyl Alcohol	Lambert Riviere	1.0
Isohexadecane	Isohexadecane	Lambert Riviere	1.0
Leucidal® Liquid	Leuconostoc/Radish Root Ferment Filtrate	Active Micro Technologies LLC	4.0
Deionized Water	Aqua	-	q.s. 100

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### Results:

Characteristic	Percent (%) Decrease
Number of wrinkles	8
Total wrinkle surface	15
Total length	15

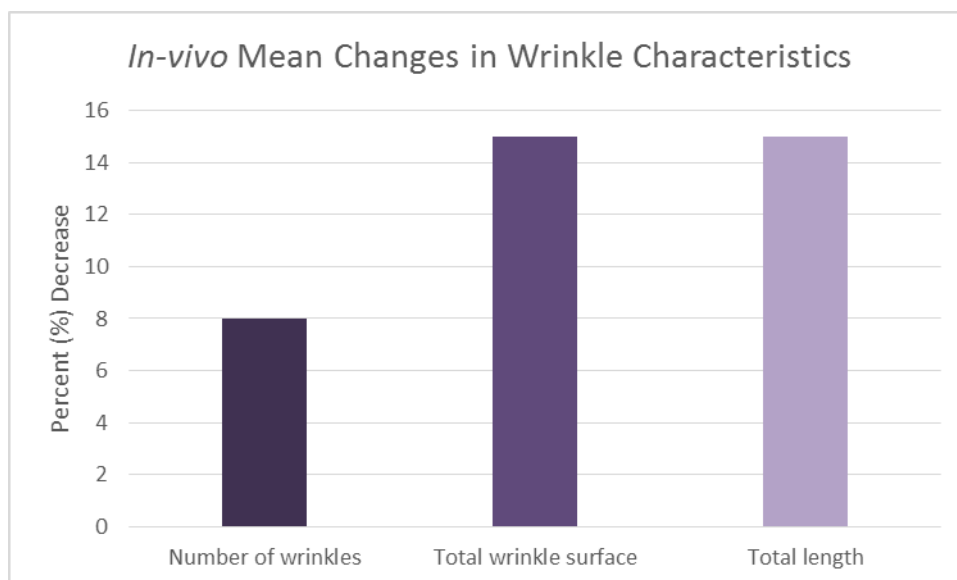


Figure 1: Mean changes in wrinkle characteristics using 2% **ABS Viola Tricolor Extract PF**.

### Discussion:

The results indicate that using 2% **ABS Viola Tricolor Extract PF** twice daily for 28 days is effective for decreasing the number of wrinkles presents in the outer eye area while also minimizing the total wrinkle surface and wrinkle length. One may therefore use **ABS Viola Tricolor Extract PF** in anti-wrinkle products to decrease the overall appearance in wrinkles.