Summary of the Report on a Randomized, Open-label, Parallel-group, Selfcontrolled Human Trial of L-Ergothioneine Eye Wash for the Improving Ocular Discomfort

	Research Title: A Randomized, Open-label, Parallel-group, Self-controlled Human Trial of L-Ergothioneine Eye Wash for the Improving Ocular Discomfort
	Protocol Version No./Version Date: V1.0/September 24_2024
-	Name of Test Product: L-Ergothioneine Eye Washer &
	Sponsor's Name: GeneIII Biotechnology Co., I.G.
50702	Frincisk Investigator: Jiang Jiang
1010	Research Center: Hefei First People's Hospit
57	Clinical CFIC: Anhui Lingka Medical Technology Consttd.
1057 H	hical Review No.: 2024- Ethical Review-28
14.1	Research Feriod: 2024-11-04~2024-12-03
A À	A conformed Consent Signed by the First Subject ~ Date of Some Section of Follow-up of the Last Subject) Trial Phase: IIT (Investigator Initiated Trial) Research
	Research Objectives
	Primary Research Objective
	To study the effectiveness of L-Ergothioneine Eye Wash for the Improving Ocular Discomfort compared with self-control group.
	Secondary Research Objectives
	To observe the safety of L-Ergothioneine Eye Wash during the clinical trial.
	Test Products
	L-Ergothioneine Eye Wash 1: 5 mL (water, 0.5% ergothioneine, sodium hyaluronate, taurine, sodium chloride).
	L-Ergothioneine Eye Wash 2: 0.5 mL (water, 0.5% ergothioneine, sodium hyaluronate, taurine, sodium chloride).
	Research Methodology: A single-center, randomized, double-blind, parallel, placebo-controlled clinical
	study. Number of Subjects
	Number of subjects who completed the trial: 40 cases, with 20 cases in each Group: Test Group 1 (5 mL L- Ergothioneine Eye Wash) and Test Group 2 (0.5 mL L-Ergothioneine Eye Wash).
	Ergounionenie Eye wash) and rest Group 2 (0.3 mL L-Ergounionenie Eye wash).
	Test Products:
	L-Ergothioneine Eye Wash 1: 5mL (water, ergothioneine 0.5%, sodium hyaluronate, taurine, sodium chloride)
	L-Ergothioneine Eye Wash 2: 0.5mL (water, ergothioneine 0.5%, sodium hyaluronate, taurine, sodium chloride)
·	Results of Effect Evaluation Indicators:
	1.Chinese Dry Eye Questionnaire Scale
	The mean value of the Chinese Dry Eye Questionnaire Scale for 40 subjects at the baseline period was 12.50, and the mean value at the end-of-study period was 10.65, which decreased by 14.80%, and there was a significant difference (P = 0.0353), as shown in Figure 1.
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	Chinese Dry Eye Questionnaire Scale/Score
	+ +
	0
	Baseline Period Test Period Withdrawal Period Note: * indicates <i>p</i> <0.05
	Figure 1. Box Plot of the Chinese Dry Eye Questionnaire Scale 2. Ocular Surface Disease Index (OSDI) Rating Scale
	2. Ocular Surface Disease muex (USDI) Rating Scale

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The mean value of the Ocular Surface Disease Index (OSDI) score of 40 subjects at the baseline period was 12.25, the mean value at the withdrawal period was 9.23, which decreased by 24.69%, and there was a significant difference (*P* = 0.0309), as shown in Figure 2.



Baseline Period Test Period Withdrawal Period Note: * indicates *p*<0.05 Figure 2. Box plot of OSDI Rating Scale

3. General Survey Version of the Visual Fatigue Scale

The mean baseline value of the scores of the General Survey Version of the Visual Fatigue Scale for 40 subjects was 11.18, and the mean value at the withdrawal period was 6.60, representing a decrease of 40.94%. There was a significant difference (*P* = 0.0008), as shown in Figure 3.



Figure 3. Box plot for the evaluation of the General Survey Version of the Visual Fatigue Scale

4. Fluorescein Staining Tear Film Break-up Time

For the 40 subjects, at the withdrawal period, the mean values of the first tear film break-up time of the left eye, the average tear film break-up time of the left eye, the first tear film break-up time of the right eye, and the average tear film break-up time of the right eye increased by 23.60%, 24.56%, 26.98%, and 27.74% respectively compared with those at the baseline period. All of these showed statistically significant differences (P < 0.0001, P < 0.0001, P < 0.0001, P < 0.0001), as shown in Figures 4 and 5.



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