



Quality Assurance Statement

This study (ETC Panel No.: 15377; ETC Entry No.: 28635) was conducted in accordance with the intent and purpose of the Good Clinical Practice regulations described in 21 CFR Part 50 (Protection of Human Subjects — Informed Consent) and the Standard Operating Procedures of Essex Testing Clinic, Inc.

For purposes of this clinical study:

- Informed Consent was obtained.
- ☐ Informed Consent was not obtained.
- An IRB review was not required.
- An IRB review was conducted and approval to conduct the proposed clinical research was granted.

To assure compliance with the study protocol, the Quality Assurance Unit completed an audit of the applicable study records and report. This report is considered a true and accurate reflection of the testing methods and source data.



Sherri L. Sayles, MS

Date

Sherri L. Sayles, MS

- Manager, Quality Assurance

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TABLE 1 - INDIVIDUAL SCORES



1.0 OBJECTIVE

The objective of this study was to determine the irritation and/or sensitization potential of the test article after repeated application under semi-occlusive patch test conditions to the skin of human subjects (non-exclusive panel).

2.0 SPONSOR

MDPen 2727 Paces Ferry Road SE Building ONE, Suite 750 Atlanta, GA 30339

3.0 CLINICAL TESTING FACILITY

The study was conducted by: Essex Testing Clinic, Inc. 799 Bloomfield Avenue Verona, NJ 07044

4.0 CLINICAL INVESTIGATORS

Study Director: Annemarie E. Hollenback, BA

Principal Investigator: Toni F. Miller, PhD, DABT, BCFE

Medical Investigator: John A. Erianne, MD,

Board-Certified Dermatologist

5.0 STUDY DATES

Study initiation: July 29, 2015 Final evaluation: September 4, 2015

All **MDPen** Professional Skincare Products are vegan formulations containing organic ingredients that are paraben, petrochemical and SLS/SLE free-without any animal testing.



Cellular Renewal Serum

MDPen Cellular Renewal Serum contains natural botanical extracts designed to enhance the firmness and elasticity of the skin, while reducing the appearance of wrinkles and promoting cellular renewal.



Copper + HA Mist

MDPen Copper + HA Mist formula includes hyaluronic acid for significant hydration, and copper peptides to boost collagen, act as antioxidants, and promote firmer, smoother skin. Our unique Mist gives patients a hands-free way to nourish their newly-treated skin



Pure Hyaluronic Acid Serum

Hyaluronic acid is considered to have a greater capacity to hold moisture than any other polymer. MDPen Pure Hyaluronic Acid Serum replenishes the skin's moisture reservoir, restoring firmness and elasticity, while providing significant skin improvement.

6.0 ETHICS

6.1 Ethical Conduct of the Study

This study was conducted in accordance with the intent and purpose of the Good Clinical Practice regulations described in Title 21 of the U.S. Code of Federal Regulations (CFR), the Declaration of Helsinki and/or Essex Testing Clinic (ETC) Standard Operating Procedures.

6.2 Subject Information and Consent

This study was conducted in compliance with CFR Title 21, Part 50 (Informed Consent of Human Subjects). Informed Consent was obtained from each subject in the study and documented in writing before participation in the study. A copy of the Informed Consent was provided to each subject.

7.0 TEST MATERIAL

It was received on July 20, 2015 and identified as follows:

ETC Entry No. 28635

Test Article ID: MDPen Skincare Formulation Description: Transparent Colorless Viscous Liquid

8.0 TEST SUBJECTS









The subjects chosen were dependable and able to read and understand instructions. The subjects did not exhibit any physical or dermatologic condition that would preclude application of the test article or the determination of potential effects of the test article.

Tiphen + Lti Serum with Learn Value Tiphen T

Tighten + Lift Serum

MDPen Tighten + Lift Serum features the IntegriACTIVE Firmlift™ conditioning blend with sweet almond seed extract, which helps to lift and firm the skin, making it an excellent addition to any anti-aging skincare regimen.



Broad Spectrum SPF 30+

MDPen Broad Spectrum SPF 30 is formulated with powerful active ingredients designed to protect the skin while adding moisture and hydration with jojoba and is rich in vitamins A, C, and E to condition the skin, synthesize collagen, and block free radicals.



Hydrating Cleanser

MDPen Hydrating Cleanser is a gentle foaming cleanser formulated to remove makeup and surface impurities without drying the skin. Our Cleanser contains Hyaluronic Acid to hydrate and botanical extracts of Aloe, Green Tea, Chamomile and Marigold to soothe, calm and nourish the skin



Human Derived Growth Factor Gel

MDPen Human Derived Growth Factor Gel contains Tremella Fuciformis Sporocarp Extract, a humectant which acts to reduce moisture loss, while the MariMoist® blend of Chondrus Crispus Extract and Sodium Hyaluronate instantly hydrates and softens. The Conditioned Stem Media contains Epidermal Growth Factors that help promote skin health and youthful appearance. With the addition of Calendula, Aloe and Oat Kernel, the gel is designed to provide the nourishment and calming agents needed to restore the skin after treatment.

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9.0 TEST PROCEDURE

The 9 Repeated Insult (semi-occlusive) Patch Test (9-RIPT) I was conducted as follows:

9.1 Induction Phase

A sufficient amount of the test article (approximately 0.2 mL) was placed onto a 2 cm x 2 cm square of Webril@ cotton fabric (approximately 0.05 mL/cm2 of test material) affixed to Scanpor (Allerderm) semi-occlusive surgical tape. The patch was then applied to the back of each subject between the scapulae and waist, adjacent to the spinal mid-line. This procedure was performed by a trained technician/examiner and repeated every Monday, Wednesday and Friday until 9 applications of the test article had been made.

The subjects were instructed to remove the patch 24 hours after application. Twenty-four hour rest periods followed the Tuesday and Thursday removals and 48-hour rest periods followed each Saturday removal. Subjects returned to the Testing Facility and the site was scored by a trained examiner just prior to the next patch application.

If a subject developed a positive reaction of a level 2 erythema or greater during the Induction phase or if, at the discretion of the Study Director, the skin response warranted a change in site, the patch was applied to a previously unpatched, adjacent site for the next application. If a level 2 reaction or greater occurred at the new site, no further applications were made. However, any reactive subjects were subsequently Challenge patch tested.

9.2 Challenge Phase

After a rest period of approximately 2 weeks (no applications of the test article), the Challenge patch was applied to a previously unpatched (virgin) test site. The site was scored 24 and 72 hours after application. All subjects were instructed to report any delayed skin reactivity that occurred after the final Challenge patch reading. When warranted, selected test subjects were called back to the clinic for additional examinations and scoring to determine possible increases or decreases in Challenge patch reactivity.

Dermal responses for both the Induction and Challenge phases of the study were scored according to the following 6-point scale:



All other observed dermal sequelae (eg, edema, dryness, hypo- or hyperpigmentation) were appropriately recorded on the data sheet and described as mild, moderate or severe.

1 MarzulJi FN, Maibach HI. (1976) Contact allergy: predictive testing in man. Contact Dermatitis. 2, 1-17. Essex Testing Clinic, Inc.

9.0 TEST PROCEDURE (CONT'D)

9.3 Data Interpretation

Edema, vesicles, papules and/or erythema that persist or increase in intensity either during the Induction and/or Challenge phase may be indicative of allergic contact dermatitis. Allergic responses normally do not resolve or improve markedly at 72-96 hours.

Exceptions to typical skin reactions may occur. These may include, but are not be limited to, symptoms of allergic contact sensitivity early in the Induction period to one or more test products. When this occurs in one subject, such a reaction usually suggests either an idiosyncratic response or that the subject had a preexposure/sensitization to the test material or component(s) of the test material or a cross-reactivity with a similar product/component. Data for such reactions will be included in the study report but will not be included in the final study analysis/conclusion of sensitization.

Induction Phase Summary

Test Article		In (Num	Evidence of Irritation				
	0.5	1	2	3	4	Other	
MDPen Skincare Formulation	0	0	0	0	0	0	No

Challenge Phase Summary

Test Article	9						Evidence of Sensitization
	0.5	1	2	3	4	Other	
MDPen Skincare Formulation	0	0	0	0	0	0	No

There was no skin reactivity observed at any time during the course of the

10.0 RESULTS AND DISCUSSION

(See Table 1 for Individual Scores)

A total of 58 subjects (12 males and 46 females ranging in age from 18 to 79 years) were empaneled for the test procedure. Fifty (50/58) subjects satisfactorily completed the test procedure on Test Article: MDPen Skincare Formulation. Eight (8/58) subjects discontinued for personal reasons unrelated to the conduct of the study. Discontinued subject data are shown up to the point of discontinuation, but are not used in the Conclusions section of this final report.

11.0 CONCLUSIONS

Under the conditions of a repeated insult (semi-occlusive) patch test procedure conducted on 50 subjects, Test Article: MDPen Skincare Formulation was "dermatologist-tested" and was not associated with skin irritation or allergic contact dermatitis in human subjects.



TABLE 1: INDIVIDUAL SCORES REPEATED INSULT PATCH TEST - SEMI-OCCLUSIVE

Test Article: MDPen Skincare Formulation

Subj.	Induction Evaluation Number									Challenge Vir in Site	
No.	1	2	3	4	5	6	7	8	9	24hr	72hr
1	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	Disco	ontinued				
4	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0
9	0	Disco	ontinued								
10	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	Disco	ontinued		
19	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0		ontinued				
25	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0

Scale

0=

No evidence of any effect



Barely perceptible (Minimal, faint, uniform or spotty erythema)

1=

Mild (Pink, uniform erythema covering most of the contact site)

2=

Moderate (Pink-red erythema uniform in the entire contact site)

3=

Marked (Bright red erythema with/without petechiae or papules)

4=

Severe (Deep red erythema with/without vesiculation or weeping)

TABLE 1 (CONT'D): INDIVIDUAL SCORES REPEATED INSULT PATCH TEST - SEMI-OCCLUSIVE

Test Article: MDPen Skincare Formulation

Subj.		Induction Evaluation Number									Challenge Vir in Site	
No.	1	2	3	4	5	6	7	8	9	24hr	72hr	
31	0	0	0	0	0	0	0	0	0	0	0	
32	0	0	0	0	0	0	0	0	0	0	0	
33	0	0	0	0	0	0	0	0	0	0	0	
34	0	0	0	0	0	0	0	0	0	0	0	
35	0	0	0	0	0	0	0	0	0	0	0	
36	0	0	0	0	0	0	0	0	0	0	0	
37	0	0	0	0	0	0	0	0	0	0	0	
38	0	0	0	0	0	0	0	0	0	0	0	
39	0	0	0	0	0	0	0	0	0	0	0	
40	0	0	0	0	0	0	0	0	0	0	0	
41	0	0	0	0	0	0	0	0	0	0	0	
42	0	0	0	0	0	0	0	0	0	0	0	
43	0	0	0	Disco	ntinued							
44	0	0	0	0	0	0	0	0	0	0	0	
45	0	0	0	0	0	0	0	0	0	0	0	
46	0	Disco	ntinued									
47	0	0	Disco	ntinued								
48	0	0	0	0	0	0	0	0	0	0	0	
49	0	0	0	0	0	0	0	0	0	0	0	
50	0	0	0	0	0	0	0	0	0	0	0	
51	0	0	0	0	0	0	0	0	0	0	0	
52	0	0	0	0	0	0	0	0	0	0	0	
53	Disco	ntinued										
54	0	0	0	0	0	0	0	0	0	0	0	
55	0	0	0	0	0	0	0	0	0	0	0	
56	0	0	0	0	0	0	0	0	0	0	0	
57	0	0	0	0	0	0	0	0	0	0	0	
58	0	0	0	0	0	0	0	0	0	0	0	

Scale

0=

No evidence of any effect



Barely perceptible (Minimal, faint, uniform or spotty erythema)



Mild (Pink, uniform erythema covering most of the contact site)

2=

Moderate (Pink-red erythema uniform in the entire contact site)

3=

Marked (Bright red erythema with/without petechiae or papules)

4=

Severe (Deep red erythema with/without vesiculation or weeping)



NOTES:		
	Hydrating Cieansel Cieansel	
	pure hyalulo hyalulo acid	
	serull D Dominanti	
	Moisture tighten tight	
	100 ml / 3.4 fl o ^z	
	SKINCARE FORMULATIONS	

NOTES:	
	copper + HA mist
outg∆ negge	With copper Page and Invalidation and In
<u> </u>	T0m/ 40 fat
#4FIRIDA	



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