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## Certificate of Analysis

August 18, 2021

KeraRX Haircare  
8750 Westpark Dr.  
Houston, Texas 77063

Attn: Jeremiah R. Sammons

SL Job No: 22856

Purchase Order: COD

Project Name: KKST-2

Samples Received: One (1) Keraplasty Keratin

Smoothing Treatment Sample(s)

Date Received: 07/14/2021

Analysis	Page(s)
Formaldehyde by SOP 4010, Rev 9	2

## Analysis Summary

<u>Analyte</u>	<u>Sample Result</u>	<u>Spike Cone</u>	<u>Sample RPO</u>	<u>Spike Cone</u>	<u>Spike Result</u>	<u>Spike % Rec*</u>
Formaldehyde	ND	ND	NA	4900	4050	89

NA - RPO not applicable for results less than ten times the detection limit.

ND - None Detected

Edward Whalen, Technical Director

Andrew Hanlin, Senior Chemist

KeraRX Haircare  
SL Job No: 22856

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 Formaldehyde by SOP 4010, Rev 9  
 High Performance Liquid Chromatography-Ultraviolet Visible Absorption Spectroscopy

Sample preparation: About 1g of the sample was accurately weighed in duplicate and mixed with water at a dilution factor of 20 by shaking for 15 minutes. A one ml aliquot was removed, mixed with 7ml water, 1ml acetonitrile, and derivatized with 1ml of 2,4-dinitrophenylhydrazine (DNPH) reagent. A matrix spike and laboratory fortified blank (IFB) were treated in the same manner. After being permitted to react for 1 hour, the solutions were analyzed by HPLC with detection at 360nm. At this dilution factor (200) the matrix spike was not recoverable. The extraction was repeated twice more at successive dilutions but, at a final dilution of 4000, the matrix spike was still not sufficiently recovered. The extraction diluent was switched from water to acetonitrile, and the extractions repeated at dilutions of 25 and 5000. Blanks and IFB's for all extractions were prepared similarly. Acceptable recovery of spike was finally obtained using acetonitrile for extraction at a final dilution factor of 5000. The detection limit is adjusted for the final dilution required for the analysis.

Parts Per Million (mg/kg)

<u>Sample ID</u>	<u>Result</u>
KKST-2	ND
KKST-2 Duplicate	ND
Method Blank	ND
Detection Limit	30
Date Derivatized:	10-11-21
Date Analyzed:	10-11-21

Quality Control Summary

Sample ID:           KKST-2

<u>Analyte</u>	<u>Sample Result</u>	<u>Spike Cone</u>	<u>Sample RPO</u>	<u>Spike Cone</u>	<u>Spike Result</u>	<u>Spike % Rec*</u>
Formaldehyde	ND	ND	NA	4900	4050	89

NA - RPO not applicable for results less than ten times the detection limit.  
 ND - None Detected

\* Based on first sample result (sample spiked)

QC Guidelines

<u>Analyte</u>	<u>% Recovery</u>	<u>RPO Limit</u>
Formaldehyde	39-153	25

Sample ID:           Method Blank

<u>Analyte</u>	<u>Sample Result</u>	<u>Spike Cone</u>	<u>Spike Result</u>	<u>Spike % Rec</u>
Formaldehyde	ND	5000	4540	95

QC Guidelines

<u>Analyte</u>	<u>% Recovery</u>
Formaldehyde	80-115