

March 11, 2011

Service Request No: R1101138

Richard Nicolo  
Kerapure Systems, LLC

**Laboratory Results for: Kerapure Formaldehyde Analysis/Ref# OT 0111-05-002/54103**

Dear Richard:

Enclosed are the results of the sample(s) submitted to our laboratory on March 2, 2011. For your reference, these analyses have been assigned our service request number **R1101138**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 135. You may also contact me via email at [JJJaeger@caslab.com](mailto:JJJaeger@caslab.com).

Respectfully submitted,

**Columbia Analytical Services, Inc.**



Janice Jaeger  
Client Services Manager

## CASE NARRATIVE

This report contains analytical results for the following samples:  
Service Request Number: R1101138

Lab ID  
R1101138-001

Client ID  
Keratin Restructuring Complex

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by CAS personnel have been in accordance with "CAS Field Procedures and Measurements Manual" or by client specifications.



## REPORT QUALIFIERS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed ( $\geq 100\%$  Difference between two GC columns).
- X See Case Narrative for discussion.



### CAS/Rochester Lab ID # for State Certifications<sup>1</sup>

NELAP Accredited	Nevada ID # NY-00032
Delaware Accredited	New Jersey ID # NY004
Connecticut ID # PH0556	New York ID # 10145
Florida ID # E87674	New Hampshire ID # 294100 A/B
Illinois ID #200047	Pennsylvania ID# 68-786
Maine ID #NY0032	Rhode Island ID # 158
Nebraska Accredited	West Virginia ID # 292
Navy Facilities Engineering Service Center Approved	

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at [www.caslab.com](http://www.caslab.com).

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** Kerapure Systems, LLC (D'Arcy Skincare)  
**Project:** Kerapure Formaldehyde Analysis/Ref# OT 0111-05-002/54103  
**Sample Matrix:** NonAq Liquid

**Service Request:** R1101138  
**Date Collected:** 3/ 1/11  
**Date Received:** 3/ 2/11  
**Date Extracted:** 3/2/11  
**Date Analyzed:** 3/3/11 18:19

**Sample Name:** Keratin Restructuring Complex  
**Lab Code:** R1101138-001

**Units:** µg/Kg  
**Basis:** As Received

**Carbonyl Compounds by High Performance Liquid Chromatography (HPLC)**

**Analytical Method:** 8315A  
**Prep Method:** Method  
**Data File Name:** J:\ACQUDATA\HPLC04\DATA\030311\Z0005685.D\

**Analysis Lot:** 237827  
**Extraction Lot:** 129591  
**Instrument Name:** R-HPLC-04  
**Dilution Factor:** 100

CAS No.	Analyte Name	Result Q	MRL	Note
50-00-0	Formaldehyde	80000 U	80000	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

**Client:** Kerapure Systems, LLC (D'Arcy Skincare)  
**Project:** Kerapure Formaldehyde Analysis/Ref# OT 0111-05-002/54103  
**Sample Matrix:** NonAq Liquid

**Service Request:** R1101138  
**Date Collected:** NA  
**Date Received:** NA  
**Date Extracted:** 3/2/11  
**Date Analyzed:** 3/2/11 11:49

**Sample Name:** Method Blank  
**Lab Code:** RQ1101913-01

**Units:** µg/Kg  
**Basis:** As Received

Carbonyl Compounds by High Performance Liquid Chromatography (HPLC)

**Analytical Method:** 8315A  
**Prep Method:** Method  
**Data File Name:** J:\ACQUATA\HPLC04\DATA\030211\Z0005645.D\

**Analysis Lot:** 237827  
**Extraction Lot:** 129591  
**Instrument Name:** R-HPLC-04  
**Dilution Factor:** 1

CAS No.	Analyte Name	Result Q	MRL	Note
50-00-0	Formaldehyde	800 U	800	

**COLUMBIA ANALYTICAL SERVICES, INC.**

QA/QC Report

**Client:** Kerapure Systems, LLC (D'Arcy Skincare)  
**Project:** Kerapure Formaldehyde Analysis/Ref# OT 0111-05-002/54103  
**Sample Matrix:** NonAq Liquid

**Service Request:** R1101138  
**Date Analyzed:** 3/2/11

**Lab Control Sample Summary**  
**Carbonyl Compounds by High Performance Liquid Chromatography (HPLC)**

**Analytical Method:** 8315A  
**Prep Method:** Method

**Units:** µg/Kg  
**Basis:** As Received

**Extraction Lot:** 129591

Analyte Name	Lab Control Sample RQ1101913-02			Duplicate Lab Control Sample RQ1101913-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Formaldehyde	3870	4020	96	3900	4020	97	64 - 161	<1	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE 1 OF 1

SR # \_\_\_\_\_  
CAS Contact \_\_\_\_\_

Project Name: **KEAPURE (FORMALDEHYDE ANALYSIS)**  
 Project Manager: **RICHARD NICOLA**  
 Company/Address: **KEAPURE SYSTEMS LLC**  
**2748 NE 23RD AVE**  
**LIGHTHOUSE POINT FL 33064**  
 Phone #: **954-610-4035**  
 Supplier's Signature: *[Signature]*  
 Supplier's Printed Name: **Diana Ocampo**

Project Number: \_\_\_\_\_  
 Report CC: \_\_\_\_\_  
 Matrix: \_\_\_\_\_

CLIENT SAMPLE ID	FOR OFFICE USE ONLY	LAB ID	SAMPLING DATE	TIME	MATRIX
KEA Pure Amino RESTRICTURE					
Ref# 0111-005-0021					
54103					

ANALYSIS REQUESTED (Include Method Number and Container Preservative)  
 PRESERVATIVE: \_\_\_\_\_  
 METALS, TOTAL (List in comments below)  METALS, DISSOLVED (List in comments below)  TOTAL FORMALDEHYDE   
 PCBs  8082  608  CLP  
 PESTICIDES  8081  608  CLP  
 8021  601/602  
 GC VOAS  8270  625  CLP  
 GC/MS SVAS  8260  624  CLP

REMARKS/ALTERNATE DESCRIPTION  
 Preservative Key  
 0. NONE  
 1. HCl  
 2. HNO3  
 3. H2SO4  
 4. NaOH  
 5. Zn Acetate  
 6. MeOH  
 7. NaHSO4  
 8. Other **Dioxide Phendylmethanol**

SPECIAL INSTRUCTIONS/COMMENTS  
**Metals**  
**TOTAL FORMALDEHYDE**

See QAPP

SAMPLE RECEIPT: CONDITION/COOLER TEMP: \_\_\_\_\_ RECEIVED BY \_\_\_\_\_  
 RELINQUISHED BY *[Signature]* Signature \_\_\_\_\_  
 Printed Name **Diana Ocampo** Printed Name \_\_\_\_\_  
 Firm **CAS** Firm \_\_\_\_\_  
 Date/Time **3/1/11** Date/Time **3/2/11 0935**

TURNAROUND REQUIREMENTS  
 RUSH (SURCHARGES APPLY) \_\_\_\_\_  
 24 hr \_\_\_\_\_ 48 hr \_\_\_\_\_ 5 day \_\_\_\_\_  
 STANDARD \_\_\_\_\_  
 REQUESTED FAX DATE \_\_\_\_\_  
 REQUESTED REPORT DATE \_\_\_\_\_

REPORT REQUIREMENTS  
 I. Results Only \_\_\_\_\_  
 II. Results + QC Summaries (LCS, DUP, MS/MSD as required)   
 III. Results + QC and Calibration Summaries   
 IV. Data Validation Report with Raw Data   
 V. Specialized Forms / Custom Req \_\_\_\_\_  
 Edata  Yes \_\_\_\_\_ No \_\_\_\_\_

RELEASING BY \_\_\_\_\_  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date/Time \_\_\_\_\_

INVOICE INFORMATION  
 PO# \_\_\_\_\_  
 BILL TO: \_\_\_\_\_

**R1101138**  
 Darcy Skincare  
 Kerapure Formaldehyde Analysis

RELINQUISHED BY \_\_\_\_\_  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date/Time \_\_\_\_\_

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client  
 Please e-mail results to [docompo@darcyskincare.com](mailto:docompo@darcyskincare.com)  
 Nirmal @ darcyskincare.com

### Cooler Receipt And Preservation Check Form

Project/Client Koqure Folder Number \_\_\_\_\_

Cooler received on 3/2/11 by: AMCOURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO *no date/time*
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did VOA vials, Alkalinity, or Sulfide have significant\* air bubbles? YES NO N/A
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROC, CLIENT
7. Temperature of cooler(s) upon receipt: 16°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 3/2/11 0948

Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: \_\_\_\_\_

PC Secondary Review: AMC 3/2/11

Cooler Breakdown: Date: 3/2/11 Time: 1400 by: DFW

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies: \_\_\_\_\_

pH	Reagent			Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
		YES	NO						
≥12	NaOH								
≤2	HNO <sub>3</sub>								
≤2	H <sub>2</sub> SO <sub>4</sub>								
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-			*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*						

Yes = All samples OK  
 No = Samples were preserved at lab as listed  
 PM OK to Adjust: \_\_\_\_\_

Bottle lot numbers: Client.  
 Other Comments: \_\_\_\_\_

PC Secondary Review: AMC 3/4/11

\*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter