

Client:	DEF Products, LLC
Contact	Joe Servin, General Manager
Address	422 East Barioni Blvd Imperial, CA 02251
Email	<a href="mailto:defproducts@gmail.com">defproducts@gmail.com</a>
Phone	760 355 7997

Analytic ID	E1808069-003
Batch Number	308292018
Train Number	GATX224285
Sample ID	40.3% Urea
Date Sampled	8/29/2018
Date Received	8/30/2018
Report Date	9/5/2018

## Certificate of Analysis

Analytical ISO-22241

Client ID: 40.3% Urea Batch# 308292018 Train# GATX224285

Test Parameter/Method	Units	Test Method (ISO)	Results	Chemist	Analysis Date
Urea Content	wt%	22241-2 Annex C	40.3	SPT	9/5/2018
Density @ 20degC	g/cm <sup>3</sup>	3675	1.1100	CLB	9/5/2018
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3949	CLB	9/5/2018
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	0.02	CLB	9/4/2018
Biuret	%	22241-2 Annex E	0.26	BDK	9/5/2018
Aldehyde	mg/kg	22241-2 Annex F	<1.0	CLB	9/5/2018
Insolubles	mg/kg	22241-2 Annex G	<2.0	CLB	9/4/2018
Phosphate	mg/kg	22241-2 Annex H	<0.25	CLB	9/5/2018
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.05	SPT	9/5/2018
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.05	SPT	9/5/2018
Copper by ICP-OES	mg/kg	22241-2 Annex I	0.05	SPT	9/5/2018
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.02	SPT	9/5/2018
Chromium by ICP-OES	mg/kg	22241-2 Annex I	0.13	SPT	9/5/2018
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.02	SPT	9/5/2018
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	0.08	SPT	9/5/2018
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.05	SPT	9/5/2018
Sodium by ICP-OES	mg/kg	22241-2 Annex I	0.11	SPT	9/5/2018
Potassium by ICP-OES	mg/kg	22241-2 Annex I	0.09	SPT	9/5/2018
Identity by FTIR (attached)	Spectra	22241-2 Annex J	Reference Match	BDK	9/4/2018

Note 1: All ISO standards are up to date with the latest revisions.

**"The undersigned certifies that the value(s) reported have met the highest analytical quality control standards."**



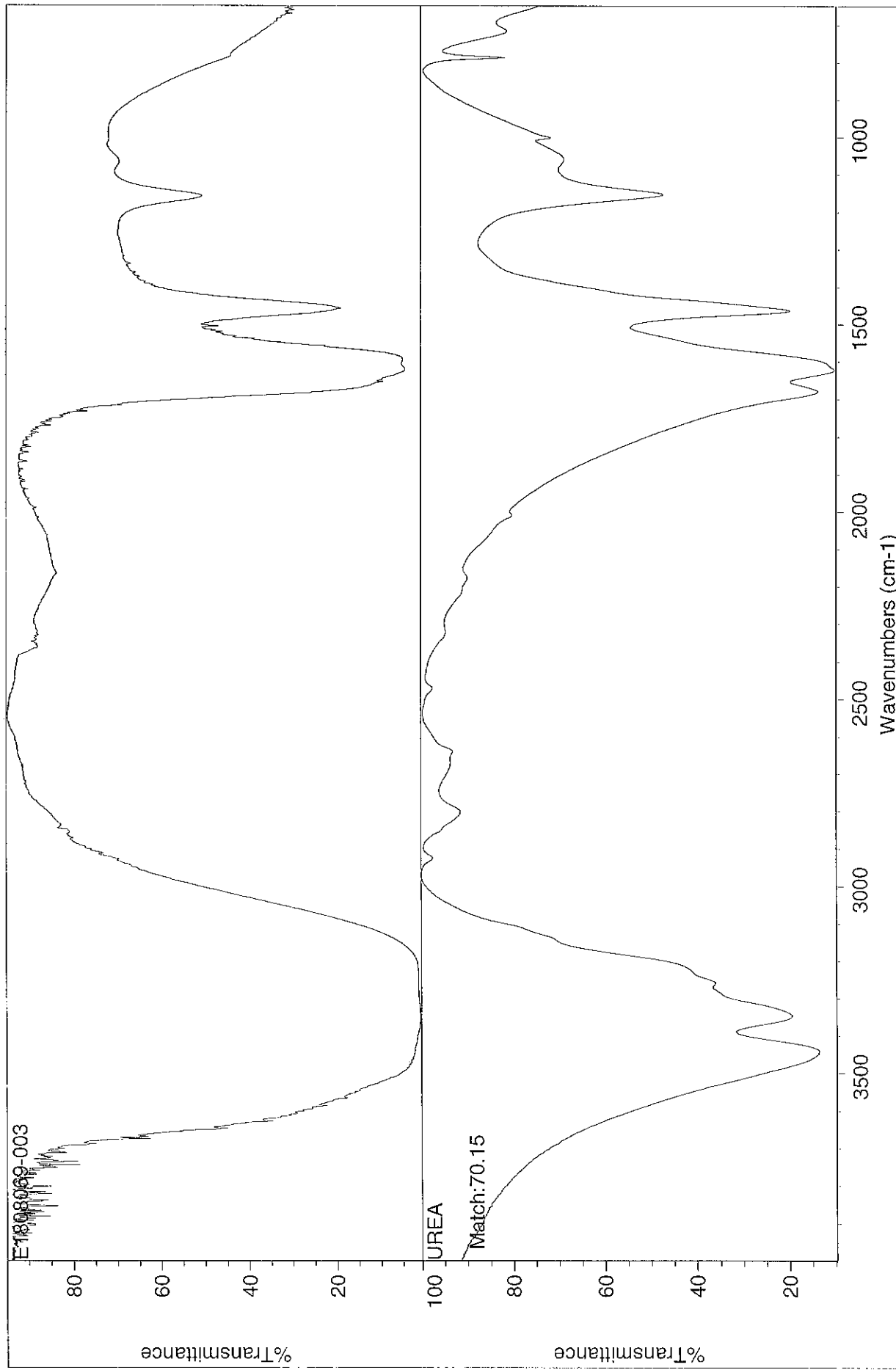
Certification Approval \_\_\_\_\_

Laboratory Director: Anthony J Scala

Analytic FDA Reg. Number: 02-636-0096

Date: 9/5/2018

Search results for: E1808069-003  
Date: Tue Sep 04 10:08:02 2018 (GMT-04:00)  
Search algorithm: Search Expert  
Regions searched: 2600.00-450.00



# analytic

Analytical Testing Laboratories

6034 Corporate Drive, East Syracuse, NY 13057  
 Phone: 315.437.0255 Fax: 315.437.1209

# Chain of Custody Record

Quote Number:

Client:	DEF Products, LLC		ISO 22241 DEF Testing		Number of Containers										Remarks			
	Project #	Phone #	Date	Time	Matrix	Grab or Comp	Lab Internal Use Only	1	2	3	4	5	6	7		8	9	10
Client Contact:	Sharon Stegmuller		(760) 355-7997		422 E. Barioni Blvd., Imperial CA		E1808069											Product Testing Certificate of Analysis
Sample ID	Batch # 308292018		8/29/2018	N/A	Liquid	Comp	-001	2	X	X	X	X	X	X	X	X	X	henworth
	Train # GATX224285																	Mexicana
	PERCENT DEF 32.5%																	Trailer Sample
	Batch # 308292018		8/29/2018	N/A	Liquid	Comp	-002	2	X	X	X	X	X	X	X	X	X	DEF Products
	Train # GATX224285																	Sample
	PERCENT DEF 32.7%																	
	Batch # 308292018		8/29/2018	N/A	Liquid	Comp	-003	2	X	X	X	X	X	X	X	X	X	DEF Products
	Train # GATX224285																	Sample
	PERCENT DEF 40.3%																	
Parameter and Method	Sample bottle:		Type	Size	Preservative	Sampled by (Print)												Name of Courier
1 Urea Content	HDPE		500 ml	None	Company: DEF Products, LLC												UPS Next Day Air Saver	
2 Refractive Index @ 20degC	Relinquished by:(sign)		Date	Relinquished by:(sign)												Received by: (sign)		
3 Density @ 20degC	DEF Products, LLC		Date	DEF Products, LLC												Received by: (sign)		
4 Alkalinity (as NH3)	Relinquished by:(sign)		Date	Relinquished by:(sign)												Received by: (sign)		
5 Biuret	Relinquished by:(sign)		Date	Relinquished by:(sign)												Received by: (sign)		
6 Aldehydes	Relinquished by:(sign)		Date	Relinquished by:(sign)												Received by: (sign)		
7 Insolubles	Relinquished by:(sign)		Date	Relinquished by:(sign)												Received by: (sign)		
8 Phosphate	Relinquished by:(sign)		Date	Relinquished by:(sign)												Received by: (sign)		
9 Total Metals: Al,Ca,Cr,Cu,Fe,K,Mg,Ni,Na,Zn.	Relinquished by:(sign)		Date	Relinquished by:(sign)												Received by: (sign)		
10 FTIR	Relinquished by:(sign)		Date	Relinquished by:(sign)												Received by: (sign)		

Rec'd for Lab by:  
**CAROLE SCALA**  
 ENALYTIC, LLC