



Keystone Laboratories - Newton
CERTIFICATE OF ANALYSIS
1GJ1831

Bayer - Grinnell, IA

Steve Thompson
721 Hwy 6
Grinnell, IA 50112

Project Name: TCLP Testing

Project / PO Number: / [none]
Received: 10/20/2023
Reported: 11/07/2023

Analytical Testing Parameters

Client Sample ID:	Treated Seed Dust	Collected By:	Unknown
Sample Matrix:	Solid	Collection Date:	10/20/2023 10:00
Lab Sample ID:	1GJ1831-01		

Determination of TCLP Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
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EPA 3010A/EPA 6010B

Arsenic (TCLP)	<0.030	0.030	mg/L	1		10/25/23 1629	11/01/23 0253	JAR
Barium (TCLP)	0.047	0.010	mg/L	1		10/25/23 1629	11/01/23 0253	JAR
Cadmium (TCLP)	0.006	0.005	mg/L	1		10/25/23 1629	11/01/23 0253	JAR
Chromium (TCLP)	0.043	0.010	mg/L	1		10/25/23 1629	11/01/23 0253	JAR
Lead (TCLP)	0.030	0.020	mg/L	1		10/25/23 1629	11/01/23 0253	JAR
Selenium (TCLP)	0.095	0.050	mg/L	1		10/25/23 1629	11/01/23 0253	JAR
Silver (TCLP)	<0.010	0.010	mg/L	1		10/25/23 1629	11/01/23 0253	JAR

EPA 7470A

Mercury (TCLP)	<0.00050	0.00050	mg/L	1		10/26/23 0958	10/27/23 1417	JAR
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Determination of TCLP Organochlorine Insecticides	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
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EPA 3510C/EPA 8081

gamma-BHC (TCLP)	<0.0400	0.0400	mg/L	1		10/25/23 1056	10/26/23 1506	EPP
Heptachlor (TCLP)	<0.0008	0.0008	mg/L	1		10/25/23 1056	10/26/23 1506	EPP
Heptachlor Epoxide (TCLP)	<0.0008	0.0008	mg/L	1		10/25/23 1056	10/26/23 1506	EPP
Endrin (TCLP)	<0.0020	0.0020	mg/L	1		10/25/23 1056	10/26/23 1506	EPP
Methoxychlor (TCLP)	<1.00	1.00	mg/L	1		10/25/23 1056	10/26/23 1506	EPP
Chlordane (TCLP)	<0.0030	0.0030	mg/L	1		10/25/23 1056	10/26/23 1506	EPP
Toxaphene (TCLP)	<0.0500	0.0500	mg/L	1		10/25/23 1056	10/26/23 1506	EPP
Surrogate: Tetrachloro-m-xylene	51.1	Limit: 10-121	% Rec	1		10/25/23 1056	10/26/23 1506	EPP

Determination of TCLP Chlorinated Phenoxy Herbicides	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
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EPA 8151A

2,4-D (TCLP)	<1.00	1.00	mg/L	1		10/25/23 1354	10/30/23 1718	EPP
Silvex (TCLP)	<0.100	0.100	mg/L	1		10/25/23 1354	10/30/23 1718	EPP
Surrogate: 2,5-Dichlorobenzoic Acid	94.8	Limit: 31-116	% Rec	1		10/25/23 1354	10/30/23 1718	EPP

TCLP Extraction	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
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EPA 1311/EPA 1311

TCLP pH, Initial	4.9		pH	1		10/23/23 0914	10/24/23 1422	BMS
TCLP pH, Final	5.0		pH	1		10/23/23 0914	10/24/23 1422	BMS

Definitions

RL: Reporting Limit

Keystone Laboratories - Newton

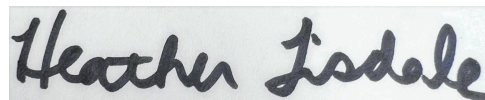
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Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:



Heather Tisdale

Project Manager I

heather.tisdale@microbac.com

11/07/23 10:39



SITE INFORMATION

Sampler: _____

Project: TOLP Testing

SPECIAL INSTRUCTIONS

COMPOSITE ALL SAMPLE JARS

Turn Around Time

☐ Standard ☐ RUSH, need by ____/____/____

REPORT TO

Steve Thompson
Bayer - Grinnell, IA
721 Hwy 8
Grinnell, IA 50112

INVOICE TO

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LAB USE ONLY

Work Order

1GJ1831

Temperature

24.8

Turn-Cooler:

No

☐ Custody Seal
☐ Containers Intact
☐ COC/Labels Agree
☒ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
-001	Treated Seed Dust	Solid		10/20/23	10:00 AM	1	trip-metals	trip-pest/herb	01

Relinquished By

Date/Time

Relinquished By

Date/Time

Remarks:

Received By

Date/Time

Received for Lab By

Date/Time

Original - Lab Copy Yellow - Sampler Copy