

**Daily Analysis Runlog For Sequence/QC Batch ID # LB92466**

|              |  |           |  |                |  |  |
|--------------|--|-----------|--|----------------|--|--|
| Review By    |  | Review On |  |                |  |  |
| SubDirectory |  | LB92466   |  | Test : Ammonia |  |  |

| STD. NAME     | STD REF.#                       |
|---------------|---------------------------------|
| ICAL Standard | WP60696                         |
| ICV Standard  | WP60698                         |
| CCV Standard  | WP60697                         |
| ICSA Standard | N/A                             |
| CRI Standard  | N/A                             |
| LCS Standard  | WP60694                         |
| Chk Standard  | WP57031,WP60149,WP60619,WP60620 |

| Sr# | SampleID    | ClientID    | QcType | Date           | Comment | Status |
|-----|-------------|-------------|--------|----------------|---------|--------|
| 1   | 0.1PPM      | 0.1PPM      | CAL1   | 01/03/18 08:27 |         |        |
| 2   | 0.2PPM      | 0.2PPM      | CAL2   | 01/03/18 08:27 |         |        |
| 3   | 0.4PPM      | 0.4PPM      | CAL3   | 01/03/18 08:27 |         |        |
| 4   | 1.0PPM      | 1.0PPM      | CAL4   | 01/03/18 08:27 |         |        |
| 5   | 1.3PPM      | 1.3PPM      | CAL5   | 01/03/18 08:27 |         |        |
| 6   | 2.0PPM      | 2.0PPM      | CAL6   | 01/03/18 08:27 |         |        |
| 7   | ICV1        | ICV1        | ICV    | 01/03/18 09:14 |         |        |
| 8   | ICB1        | ICB1        | ICB    | 01/03/18 09:14 |         |        |
| 9   | CCV1        | CCV1        | CCV    | 01/03/18 09:14 |         |        |
| 10  | CCB1        | CCB1        | CCB    | 01/03/18 09:14 |         |        |
| 11  | PB105429BL  | PB105429BL  | MB     | 01/03/18 09:14 |         |        |
| 12  | PB105429BS  | PB105429BS  | LCS    | 01/03/18 09:14 |         |        |
| 13  | I7092-01    | LAR-1169    | SAM    | 01/03/18 09:14 |         |        |
| 14  | I7092-01DUP | LAR-1169DUP | DUP    | 01/03/18 09:14 |         |        |
| 15  | I7092-01MS  | LAR-1169MS  | MS     | 01/03/18 09:23 |         |        |
| 16  | I7092-01MSD | LAR-1169MSD | MSD    | 01/03/18 09:23 |         |        |
| 17  | CCV2        | CCV2        | CCV    | 01/03/18 09:23 |         |        |
| 18  | CCB2        | CCB2        | CCB    | 01/03/18 09:23 |         |        |
| 19  | DOC-01      | DOC-01      | LCS    | 01/03/18 09:59 |         |        |
| 20  | DOC-02      | DOC-02      | LCS    | 01/03/18 09:59 |         |        |
| 21  | DOC-03      | DOC-03      | LCS    | 01/03/18 09:59 |         |        |



Instrument ID : KONELAB

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

**Daily Analysis Runlog For Sequence/QCBatch ID # LB92466**

|               |        |                                 |           |                |  |  |
|---------------|--------|---------------------------------|-----------|----------------|--|--|
| Review By     |        |                                 | Review On |                |  |  |
| SubDirectory  |        | LB92466                         |           | Test : Ammonia |  |  |
| STD. NAME     |        | STD REF.#                       |           |                |  |  |
| ICAL Standard |        | WP60696                         |           |                |  |  |
| ICV Standard  |        | WP60698                         |           |                |  |  |
| CCV Standard  |        | WP60697                         |           |                |  |  |
| ICSA Standard |        | N/A                             |           |                |  |  |
| CRI Standard  |        | N/A                             |           |                |  |  |
| LCS Standard  |        | WP60694                         |           |                |  |  |
| Chk Standard  |        | WP57031,WP60149,WP60619,WP60620 |           |                |  |  |
| 22            | DOC-04 | DOC-04                          | LCS       | 01/03/18 09:59 |  |  |
| 23            | CCV3   | CCV3                            | CCV       | 01/03/18 10:25 |  |  |
| 24            | CCB3   | CCB3                            | CCB       | 01/03/18 10:25 |  |  |





## GENCHEM

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92466

SDG No.: LB92466

Contract: \_\_\_\_\_ Lab Code: CHEM

Case No.: LB92466

SAS No.: LB92466

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: \_\_\_\_\_

| Sample ID | Analyte      | Result<br>mg/L | True Value | %<br>Recovery | %<br>RSD | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|--------------|----------------|------------|---------------|----------|---------------------------|---|------------------|------------------|---------------|
| CCV1      | Ammonia as N | 0.9            | 1          | 90            | 0        | 90 - 110                  |   | 01/03/2018       | 09:14            | LB92466       |
| CCV2      | Ammonia as N | 0.98           | 1          | 98            | 0        | 90 - 110                  |   | 01/03/2018       | 09:23            | LB92466       |
| CCV3      | Ammonia as N | 1              | 1          | 100           | 0        | 90 - 110                  |   | 01/03/2018       | 10:25            | LB92466       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB92466

SDG No.: LB92466

**Contract:**

Lab Code: CHEM

**Case No.:** LB92466

**SAS No.:** LB92466

| Sample ID | Analyte      | Result<br>mg/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|--------------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|
| ICB1      | Ammonia as N | 0.0065         | +/-0.1              | U            |     | 0.1  |   | 01/03/2018       | 09:14            | LB92466       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB92466

SDG No.: LB92466

**Contract:**

Lab Code: CHEM

**Case No.:** LB92466

**SAS No.:** LB92466

| Sample ID | Analyte      | Result<br>mg/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M   | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|--------------|----------------|---------------------|--------------|-----|------|-----|------------------|------------------|---------------|
| CCB1      | Ammonia as N | 0.0033         | +/-0.1              | U            |     |      | 0.1 | 01/03/2018       | 09:14            | LB92466       |
| CCB2      | Ammonia as N | 0.0044         | +/-0.1              | U            |     |      | 0.1 | 01/03/2018       | 09:23            | LB92466       |
| CCB3      | Ammonia as N | 0.017          | +/-0.1              | U            |     |      | 0.1 | 01/03/2018       | 10:25            | LB92466       |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92466

SDG No.: LB92466

Contract: Lab Code: CHEM

Case No.: LB92466

SAS No.: LB92466

| Sample ID | Analyte | Result<br>mg/L | Acceptance<br>Limit | Conc<br>Qual | LOD | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

## Report of Analysis

|                   |          |                 |                        |
|-------------------|----------|-----------------|------------------------|
| Client:           |          | Date Collected: | 12/27/2017 12:00:00 AM |
| Project:          | LB92466  | Date Received:  | 12/28/2017 12:00:00 AM |
| Client Sample ID: | LAR-1169 | SDG No.:        | LB92466                |
| Lab Sample ID:    | I7092-01 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 50.7                   |

| Cas | Parameter    | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met.   |
|-----|--------------|-------|------|----|-----|-----|------------|-------|------------|------------|------------|
|     | Ammonia as N | 96.3  |      | 1  | 3.3 |     | 9.7        | mg/Kg | 01/02/2018 | 01/03/2018 | SM4500-NH3 |





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## Report of Analysis

|                   |          |                 |                        |
|-------------------|----------|-----------------|------------------------|
| Client:           |          | Date Collected: | 12/27/2017 12:00:00 AM |
| Project:          | LB92466  | Date Received:  | 12/28/2017 12:00:00 AM |
| Client Sample ID: | LAR-1169 | SDG No.:        | LB92466                |
| Lab Sample ID:    | I7092-01 | Matrix:         | Solid                  |
| Level (low/med):  | low      | % Solid:        | 50.7                   |

| Cas | Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|-----------|----------|
|-----|-----------|-------|------|----|-----|-----|------------|-------|-----------|-----------|----------|

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



**GENCHEM**  
**- 3b -**  
**PREPARATION BLANK SUMMARY**

**Client:** LB92466

**SDG No.:** LB92466

**Instrument:** Konelab 20

| Sample ID         | Analyte      | Result<br>(mg/Kg)      | Acceptance<br>Limit | Conc<br>Qual       | LOD<br>mg/Kg | CRQL<br>mg/Kg          | M | Analysis<br>Date                | Analysis<br>Time           | Run     |
|-------------------|--------------|------------------------|---------------------|--------------------|--------------|------------------------|---|---------------------------------|----------------------------|---------|
| <b>PB105429BL</b> | Ammonia as N | <b>SOLID</b><br>-0.067 | <4.8                | Batch Number:<br>U |              | <b>PB105429</b><br>4.8 |   | <b>Prep Date:</b><br>01/03/2018 | <b>01/02/2018</b><br>09:14 | LB92466 |



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB92466 level: low sdg no.: LB92466  
contract: lab code: CHEM case no.: LB92466 sas no.: LB92466  
matrix: Solid sample id: I7092-01 client id: LAR-1169MS  
Percent Solids for Sample: 50.7 Spiked ID: I7092-01MS Percent Solids for Spike Sample: 50.7

| Analyte      | Units | Acceptance<br>Limit %R | Spiked<br>Result | C  | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|--------------|-------|------------------------|------------------|----|------------------|---|----------------|---------------|------|---|
| Ammonia as N | mg/Kg | 75 - 125               | 216              | OR | 96.3             |   | 93             | 129           | *    |   |



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92466 level: low sdg no.: LB92466  
contract: lab code: CHEM case no.: LB92466 sas no.: LB92466  
matrix: Solid sample id: I7092-01 client id: LAR-1169MSD  
Percent Solids for Sample: 50.7 Spiked ID: I7092-01MSD Percent Solids for Spike Sample: 50.7

| Analyte      | Units | Acceptance<br>Limit %R | MSD<br>Result | C  | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|--------------|-------|------------------------|---------------|----|------------------|---|----------------|---------------|------|---|
| Ammonia as N | mg/Kg | 75 - 125               | 211           | OR | 96.3             |   | 95.7           | 120           |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB92466      **Level:** LOW      **SDG No.:** LB92466  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB92466      **SAS No.:** LB92466  
**Matrix:** Solid      **Sample ID:** I7092-01      **Client ID:** LAR-1169DUP  
**Percent Solids for Sample:** 50.7      **Duplicate ID** I7092-01DUP      **Percent Solids for Spike Sample:** 50.7

| Analyte      | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|--------------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Ammonia as N | mg/Kg | 20                  | 96.3             |   | 101                 |   | 5   |      |   |

# GENCHEM

- 6 -

## DUPLICATE SAMPLE SUMMARY

**Client:** LB92466      **Level:** LOW      **SDG No.:** LB92466  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB92466      **SAS No.:** LB92466  
**Matrix:** Solid      **Sample ID:** I7092-01MS      **Client ID:** LAR-1169MSD  
**Percent Solids for Sample:** 50.7      **Duplicate ID** I7092-01MSD      **Percent Solids for Spike Sample:** 50.7

| Analyte      | Units | Acceptance<br>Limit | Sample<br>Result | C  | Duplicate<br>Result | C  | RPD | Qual | M |
|--------------|-------|---------------------|------------------|----|---------------------|----|-----|------|---|
| Ammonia as N | mg/Kg | 20                  | 216              | OR | 211                 | OR | 2   |      |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92466

SDG No.: LB92466

Contract:

Lab Code: CHEM

Case No.: LB92466

SAS No.: LB92466

| Analyte                | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|------------------------|-------|------------|--------|---|---------------|----------------------|---|
| DOC-01<br>Ammonia as N | mg/Kg | 1          | 0.87   |   | 87            | 80 - 120             |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92466

SDG No.: LB92466

Contract:

Lab Code: CHEM

Case No.: LB92466

SAS No.: LB92466

| Analyte                | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|------------------------|-------|------------|--------|---|---------------|----------------------|---|
| DOC-02<br>Ammonia as N | mg/Kg | 1          | 0.81   |   | 81            | 80 - 120             |   |





GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92466

SDG No.: LB92466

Contract:

Lab Code: CHEM

Case No.: LB92466

SAS No.: LB92466

| Analyte                | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|------------------------|-------|------------|--------|---|---------------|----------------------|---|
| DOC-03<br>Ammonia as N | mg/Kg | 1          | 0.85   |   | 85            | 80 - 120             |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92466

SDG No.: LB92466

Contract:

Lab Code: CHEM

Case No.: LB92466

SAS No.: LB92466

| Analyte      | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|--------------|-------|------------|--------|---|---------------|----------------------|---|
| DOC-04       |       |            |        |   |               |                      |   |
| Ammonia as N | mg/Kg | 1          | 0.9    |   | 90            | 80 - 120             |   |



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92466 SDG No.: LB92466  
Contract:                      Lab Code: CHEM Case No.: LB92466 SAS No.: LB92466

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| Analyte                    | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|----------------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB105429BS<br>Ammonia as N | mg/Kg | 49         | 46     |   | 93.9          | 80 - 120             |   |

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