

**Daily Analysis Runlog For Sequence/QC Batch ID # LB94172**

|              |  |           |  |                  |  |  |
|--------------|--|-----------|--|------------------|--|--|
| Review By    |  | Review On |  |                  |  |  |
| SubDirectory |  | LB94172   |  | Test : Phenolics |  |  |

| STD. NAME     | STD REF.#               |
|---------------|-------------------------|
| ICAL Standard | WP63066                 |
| ICV Standard  | WP63068                 |
| CCV Standard  | WP63067                 |
| ICSA Standard | N/A                     |
| CRI Standard  | N/A                     |
| LCS Standard  | WP63048                 |
| Chk Standard  | WP63065,WP63061,WP63060 |

| Sr# | SampleID    | ClientID          | QcType | Date           | Comment | Status |
|-----|-------------|-------------------|--------|----------------|---------|--------|
| 1   | 0.05PPM     | 0.05PPM           | CAL1   | 03/27/18 11:37 |         | OK     |
| 2   | 0.1PPM      | 0.1PPM            | CAL2   | 03/27/18 11:37 |         | OK     |
| 3   | 0.25PPM     | 0.25PPM           | CAL3   | 03/27/18 11:37 |         | OK     |
| 4   | 0.50PPM     | 0.50PPM           | CAL4   | 03/27/18 11:37 |         | OK     |
| 5   | 1.0PPM      | 1.0PPM            | CAL5   | 03/27/18 11:37 |         | OK     |
| 6   | 2.0PPM      | 2.0PPM            | CAL6   | 03/27/18 11:37 |         | OK     |
| 7   | ICV1        | ICV1              | ICV    | 03/27/18 12:05 |         | OK     |
| 8   | ICB1        | ICB1              | ICB    | 03/27/18 12:05 |         | OK     |
| 9   | CCV1        | CCV1              | CCV    | 03/27/18 12:05 |         | OK     |
| 10  | CCB1        | CCB1              | CCB    | 03/27/18 12:05 |         | OK     |
| 11  | PB107671BL  | PB107671BL        | MB     | 03/27/18 12:05 |         | OK     |
| 12  | PB107671BS  | PB107671BS        | LCS    | 03/27/18 12:05 |         | OK     |
| 13  | J2054-01    | MW-02-20180323-DE | SAM    | 03/27/18 12:05 |         | OK     |
| 14  | J2054-01DUP | MW-02-20180323-DE | DUP    | 03/27/18 12:05 |         | OK     |
| 15  | J2054-01MS  | MW-02-20180323-DE | MS     | 03/27/18 12:05 |         | OK     |
| 16  | J2054-01MSD | MW-02-20180323-DE | MSD    | 03/27/18 12:05 |         | OK     |
| 17  | CCV2        | CCV2              | CCV    | 03/27/18 12:05 |         | OK     |
| 18  | CCB2        | CCB2              | CCB    | 03/27/18 12:05 |         | OK     |



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## Report of Analysis

|                   |                    |                 |                       |
|-------------------|--------------------|-----------------|-----------------------|
| Client:           |                    | Date Collected: | 3/23/2018 12:00:00 AM |
| Project:          | LB94172            | Date Received:  | 3/23/2018 12:00:00 AM |
| Client Sample ID: | MW-02-20180323-DEP | SDG No.:        | LB94172               |
| Lab Sample ID:    | J2054-01           | Matrix:         | WATER                 |
| Level (low/med):  | low                | % Solid:        | 0                     |

| Cas | Parameter | Conc. | Qua. | DF | MDL   | LOD | LOQ / CRQL | Units | Prep Date  | Date Ana.  | Ana Met. |
|-----|-----------|-------|------|----|-------|-----|------------|-------|------------|------------|----------|
|     | Phenolics | 0.025 | J    | 1  | 0.002 |     | 0.05       | mg/L  | 03/26/2018 | 03/27/2018 | 420.1    |



## Report of Analysis

|                   |                    |                 |                       |
|-------------------|--------------------|-----------------|-----------------------|
| Client:           |                    | Date Collected: | 3/23/2018 12:00:00 AM |
| Project:          | LB94172            | Date Received:  | 3/23/2018 12:00:00 AM |
| Client Sample ID: | MW-02-20180323-DEP | SDG No.:        | LB94172               |
| Lab Sample ID:    | J2054-01           | Matrix:         | WATER                 |
| Level (low/med):  | low                | % Solid:        | 0                     |

| 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**

**- 3a -**

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** LB94172 **SDG No.:** LB94172  
**Contract:**                      **Lab Code:** CHEM **Case No.:** LB94172 **SAS No.:** LB94172

| 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      | Phenolics | 0.0068         | +/-0.05             | J            |     | 0.05 |   | 03/27/2018       | 12:05            | LB94172       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB94172

SDG No.: LB94172

**Contract:**

Lab Code: CHEM

**Case No.:** LB94172

**SAS No.:** LB94172

| 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      | Phenolics | 0.0054         | +/-0.05             | J            |     | 0.05 |   | 03/27/2018       | 12:05            | LB94172       |
| CCB2      | Phenolics | 0.0047         | +/-0.05             | J            |     | 0.05 |   | 03/27/2018       | 12:05            | LB94172       |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94172

SDG No.: LB94172

Contract: Lab Code: CHEM

Case No.: LB94172

SAS No.: LB94172

| 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 |
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|
|-----------|---------|----------------|---------------------|--------------|-----|------|---|------------------|------------------|---------------|





## GENCHEM

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94172

SDG No.: LB94172

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

Case No.: LB94172

SAS No.: LB94172

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

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

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| Sample ID | Analyte   | Result<br>mg/L | True Value | %<br>Recovery | Qual | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|------|---------------------------|---|------------------|------------------|---------------|
| CCV1      | Phenolics | 0.98           | 1          | 98            |      | 90 - 110                  |   | 03/27/2018       | 12:05            | LB94172       |
| CCV2      | Phenolics | 0.97           | 1          | 97            |      | 90 - 110                  |   | 03/27/2018       | 12:05            | LB94172       |

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GENCHEM  
- 3b -  
PREPARATION BLANK SUMMARY

Client: LB94172

SDG No.: LB94172

Instrument: Konelab 20

| Sample ID  | Analyte   | Result<br>(mg/L) | Acceptance<br>Limit | Conc<br>Qual       | LOD<br>mg/L | CRQL<br>mg/L     | M | Analysis<br>Date         | Analysis<br>Time    | Run     |
|------------|-----------|------------------|---------------------|--------------------|-------------|------------------|---|--------------------------|---------------------|---------|
| PB107671BL | Phenolics | WATER<br>0.0085  | <0.05               | Batch Number:<br>J |             | PB107671<br>0.05 |   | Prep Date:<br>03/27/2018 | 03/26/2018<br>12:05 | LB94172 |



GENCHEM  
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MATRIX SPIKE SUMMARY

client: LB94172 level: low sdg no.: LB94172  
contract: lab code: CHEM case no.: LB94172 sas no.: LB94172  
matrix: WATER sample id: J2054-01 client id: MW-02-20180323-DEPMS  
Percent Solids for Sample: 0 Spiked ID: J2054-01MS Percent Solids for Spike Sample: 0

| Analyte   | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|-----------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|---|
| Phenolics | mg/L  | 75 - 125               | 0.88             |   | 0.025            | J | 1              | 86            |      |   |



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94172 level: low sdg no.: LB94172  
contract: lab code: CHEM case no.: LB94172 sas no.: LB94172  
matrix: WATER sample id: J2054-01 client id: MW-02-20180323-DEPMSD  
Percent Solids for Sample: 0 Spiked ID: J2054-01MSD Percent Solids for Spike Sample: 0

| Analyte   | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|-----------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|---|
| Phenolics | mg/L  | 75 - 125               | 0.88          |   | 0.025            | J | 1              | 86            |      |   |

# GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB94172      **Level:** LOW      **SDG No.:** LB94172  
**Contract:** \_\_\_\_\_ **Lab Code:** CHEM      **Case No.:** LB94172      **SAS No.:** LB94172  
**Matrix:** WATER      **Sample ID:** J2054-01      **Client ID:** MW-02-20180323-DEPDUP  
**Percent Solids for Sample:** 0      **Duplicate ID** J2054-01DUP      **Percent Solids for Spike Sample:** 0

| Analyte   | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|-----------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Phenolics | mg/L  | 20                  | 0.025            | J | 0.025               | J | 0   |      |   |

# GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB94172      **Level:** LOW      **SDG No.:** LB94172  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB94172      **SAS No.:** LB94172  
**Matrix:** WATER      **Sample ID:** J2054-01MS      **Client ID:** MW-02-20180323-DEPMSD  
**Percent Solids for Sample:** 0      **Duplicate ID** J2054-01MSD      **Percent Solids for Spike Sample:** 0

| Analyte   | Units | Acceptance<br>Limit | Sample<br>Result | C | Duplicate<br>Result | C | RPD | Qual | M |
|-----------|-------|---------------------|------------------|---|---------------------|---|-----|------|---|
| Phenolics | mg/L  | 20                  | 0.88             |   | 0.88                |   | 0   |      |   |



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB94172

SDG No.: LB94172

Contract:

Lab Code: CHEM

Case No.: LB94172

SAS No.: LB94172

| Analyte                 | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|-------------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB107671BS<br>Phenolics | mg/L  | 1          | 1      |   | 100           | 80 - 120             |   |