

**Daily Analysis Runlog For Sequence/QC Batch ID # LB93366**

|              |  |           |  |                  |  |  |
|--------------|--|-----------|--|------------------|--|--|
| Review By    |  | Review On |  |                  |  |  |
| SubDirectory |  | LB93366   |  | Test : Phenolics |  |  |

| STD. NAME     | STD REF.#               |
|---------------|-------------------------|
| ICAL Standard | WP62057                 |
| ICV Standard  | WP62059                 |
| CCV Standard  | WP62058                 |
| ICSA Standard | N/A                     |
| CRI Standard  | N/A                     |
| LCS Standard  | WP61873                 |
| Chk Standard  | WP58150,WP58151,WP62060 |

| Sr# | SampleID    | ClientID   | QcType | Date           | Comment | Status |
|-----|-------------|------------|--------|----------------|---------|--------|
| 1   | 0.05PPM     | 0.05PPM    | CAL1   | 02/19/18 11:17 |         | OK     |
| 2   | 0.1PPM      | 0.1PPM     | CAL2   | 02/19/18 11:17 |         | OK     |
| 3   | 0.25PPM     | 0.25PPM    | CAL3   | 02/19/18 11:17 |         | OK     |
| 4   | 0.50PPM     | 0.50PPM    | CAL4   | 02/19/18 11:17 |         | OK     |
| 5   | 1.0PPM      | 1.0PPM     | CAL5   | 02/19/18 11:17 |         | OK     |
| 6   | 2.0PPM      | 2.0PPM     | CAL6   | 02/19/18 11:17 |         | OK     |
| 7   | ICV1        | ICV1       | ICV    | 02/19/18 11:40 |         | OK     |
| 8   | ICB1        | ICB1       | ICB    | 02/19/18 11:40 |         | OK     |
| 9   | CCV1        | CCV1       | CCV    | 02/19/18 11:40 |         | OK     |
| 10  | CCB1        | CCB1       | CCB    | 02/19/18 11:40 |         | OK     |
| 11  | PB106638BL  | PB106638BL | MB     | 02/19/18 11:40 |         | OK     |
| 12  | PB106638BS  | PB106638BS | LCS    | 02/19/18 11:40 |         | OK     |
| 13  | J1591-01    | MH-27      | SAM    | 02/19/18 11:59 |         | OK     |
| 14  | J1591-01DUP | MH-27DUP   | DUP    | 02/19/18 11:59 |         | OK     |
| 15  | J1591-01MS  | MH-27MS    | MS     | 02/19/18 11:59 |         | OK     |
| 16  | J1591-01MSD | MH-27MSD   | MSD    | 02/19/18 11:59 |         | OK     |
| 17  | J1591-02    | MH-28      | SAM    | 02/19/18 11:59 |         | OK     |
| 18  | CCV2        | CCV2       | CCV    | 02/19/18 11:59 |         | OK     |
| 19  | CCB2        | CCB2       | CCB    | 02/19/18 11:59 |         | OK     |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 2/16/2018 12:00:00 AM |
| Project:          | LB93366  | Date Received:  | 2/16/2018 12:00:00 AM |
| Client Sample ID: | MH-27    | SDG No.:        | LB93366               |
| Lab Sample ID:    | J1591-01 | 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 | 0.003 | J    | 1  | 0.002 |     | 0.05       | mg/L  | 02/16/2018 | 02/19/2018 | 420.1    |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 2/16/2018 12:00:00 AM |
| Project:          | LB93366  | Date Received:  | 2/16/2018 12:00:00 AM |
| Client Sample ID: | MH-28    | SDG No.:        | LB93366               |
| Lab Sample ID:    | J1591-02 | 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 | -0.0042 | U    | 1  | 0.002 |     | 0.05       | mg/L  | 02/16/2018 | 02/19/2018 | 420.1    |



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## Report of Analysis

|                   |          |                 |                       |
|-------------------|----------|-----------------|-----------------------|
| Client:           |          | Date Collected: | 2/16/2018 12:00:00 AM |
| Project:          | LB93366  | Date Received:  | 2/16/2018 12:00:00 AM |
| Client Sample ID: | MH-28    | SDG No.:        | LB93366               |
| Lab Sample ID:    | J1591-02 | 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

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93366

SDG No.: LB93366

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

Case No.: LB93366

SAS No.: LB93366

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 |
|-----------|-----------|----------------|------------|---------------|------|---------------------------|---|------------------|------------------|---------------|
| ICV1      | Phenolics | 1              | 1          | 100           |      | 90 - 110                  |   | 02/19/2018       | 11:40            | LB93366       |

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## GENCHEM

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93366

SDG No.: LB93366

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

Case No.: LB93366

SAS No.: LB93366

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

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

| 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 | 1              | 1          | 100           |      | 90 - 110                  |   | 02/19/2018       | 11:40            | LB93366       |
| CCV2      | Phenolics | 1              | 1          | 100           |      | 90 - 110                  |   | 02/19/2018       | 11:59            | LB93366       |



**GENCHEM**

- 3a -

### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB93366

SDG No.: LB93366

**Contract:**

Lab Code: CHEM

**Case No.:** LB93366

**SAS No.:** LB93366

| 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 | -0.0091        | +/-0.05             | U            |     | 0.05 |   | 02/19/2018       | 11:40            | LB93366       |

| 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 | -0.0052        | +/-0.05             | U            |     | 0.05 |   | 02/19/2018       | 11:40            | LB93366       |
| CCB2      | Phenolics | -0.0033        | +/-0.05             | U            |     | 0.05 |   | 02/19/2018       | 11:59            | LB93366       |



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93366

SDG No.: LB93366

Contract: Lab Code: CHEM

Case No.: LB93366

SAS No.: LB93366

| 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  
- 3b -  
PREPARATION BLANK SUMMARY

Client: LB93366

SDG No.: LB93366

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     |
|------------|-----------|------------------|---------------------|--------------------|-------------|------------------|---|--------------------------|---------------------|---------|
| PB106638BL | Phenolics | WATER<br>-0.0052 | <0.05               | Batch Number:<br>U |             | PB106638<br>0.05 |   | Prep Date:<br>02/19/2018 | 02/16/2018<br>11:40 | LB93366 |



GENCHEM  
- 5a -  
MATRIX SPIKE SUMMARY

client: LB93366 level: low sdg no.: LB93366  
contract: lab code: CHEM case no.: LB93366 sas no.: LB93366  
matrix: WATER sample id: J1591-01 client id: MH-27MS  
Percent Solids for Sample: 0 Spiked ID: J1591-01MS 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               | 0.71             |   | 0.003            | J | 1              | 71            | *    |   |



GENCHEM  
- 5a -  
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93366 level: low sdg no.: LB93366  
contract:                      lab code: CHEM case no.: LB93366 sas no.: LB93366  
matrix: WATER sample id: J1591-01 client id: MH-27MSD  
Percent Solids for Sample: 0 Spiked ID: J1591-01MSD 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               | 0.71          |   | 0.003            | J | 1              | 71            | *    |   |

# GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB93366      **Level:** LOW      **SDG No.:** LB93366  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB93366      **SAS No.:** LB93366  
**Matrix:** WATER      **Sample ID:** J1591-01      **Client ID:** MH-27DUP  
**Percent Solids for Sample:** 0      **Duplicate ID** J1591-01DUP      **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                  | 0.003            | J | -0.0019             | U | 200.0 | *    |   |

# GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB93366      **Level:** LOW      **SDG No.:** LB93366  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB93366      **SAS No.:** LB93366  
**Matrix:** WATER      **Sample ID:** J1591-01MS      **Client ID:** MH-27MSD  
**Percent Solids for Sample:** 0      **Duplicate ID** J1591-01MSD      **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                  | 0.71             |   | 0.71                |   | 0   |      |   |



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93366

SDG No.: LB93366

Contract:

Lab Code: CHEM

Case No.: LB93366

SAS No.: LB93366

| Analyte                 | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M |
|-------------------------|-------|------------|--------|---|---------------|----------------------|---|
| PB106638BS<br>Phenolics | mg/L  | 1          | 0.99   |   | 99            | 80 - 120             |   |