



STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE



ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

Microbac Laboratories, Inc.

Ohio Valley Division

158 Starlite Drive

Marietta, OH 45750

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection,
proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **2730**

Expiration Date: **3/31/2017**

Effective Date: **4/1/2015**

A handwritten signature in black ink, appearing to read "Christine Sotelo".

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program



**CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing**



Microbac Laboratories, Inc.

Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750
Phone: (740) 373-4071

**Certificate No.: 2730
Renew Date: 3/31/2017**

Field of Testing: 108 - Inorganic Chemistry of Wastewater

| | | | |
|-------------|---------------------------------|------------------------|---------|
| 108.112 001 | Boron | EPA 200.7 | |
| 108.112 002 | Calcium | EPA 200.7 | |
| 108.112 003 | Hardness (calculation) | EPA 200.7 | |
| 108.112 004 | Magnesium | EPA 200.7 | |
| 108.112 005 | Potassium | EPA 200.7 | |
| 108.112 006 | Silica | EPA 200.7 | |
| 108.112 007 | Sodium | EPA 200.7 | |
| 108.121 001 | Bromide | EPA 300.1 | |
| 108.121 002 | Chloride | EPA 300.1 | |
| 108.121 003 | Fluoride | EPA 300.1 | |
| 108.121 008 | Sulfate | EPA 300.1 | |
| 108.121 009 | Nitrate (as N) | EPA 300.1 | |
| 108.121 010 | Nitrate-Nitrite (as N) | EPA 300.1 | |
| 108.121 011 | Nitrite as N | EPA 300.1 | |
| 108.141 001 | Alkalinity | EPA 310.2 | |
| 108.209 001 | Ammonia (as N) | EPA 350.1 | |
| 108.211 002 | Kjeldahl Nitrogen, Total (as N) | EPA 351.2 | |
| 108.232 003 | Nitrate-Nitrite (as N) | EPA 353.2 | |
| 108.232 004 | Nitrite as N | EPA 353.2 | |
| 108.266 001 | Phosphorus, Total | EPA 365.4 | |
| 108.323 001 | Chemical Oxygen Demand | EPA 410.4 | |
| 108.360 001 | Phenols, Total | EPA 420.1 | Interim |
| 108.381 001 | Oil and Grease | EPA 1664A | |
| 108.400 001 | Acidity | SM2310B | |
| 108.410 001 | Alkalinity | SM2320B | |
| 108.420 001 | Hardness (calculation) | SM2340B | |
| 108.421 001 | Hardness | SM2340C | |
| 108.440 001 | Residue, Total | SM2540B | |
| 108.441 001 | Residue, Filterable TDS | SM2540C | |
| 108.442 001 | Residue, Non-filterable TSS | SM2540D | |
| 108.443 001 | Residue, Settleable | SM2540F | |
| 108.452 001 | Chloride | SM4500-Chloride E-1997 | |
| 108.470 001 | Cyanide, Total | SM4500-CN B or C-1999 | |
| 108.472 001 | Cyanide, Total | SM4500-CN E | |
| 108.473 001 | Cyanide, amenable | SM4500-CN G | |
| 108.480 001 | Fluoride | SM4500-F C | |
| 108.490 001 | Hydrogen Ion (pH) | SM4500-H+ B | |
| 108.506 002 | Ammonia (as N) | SM4500-NH3 G-1997 | |

As of 5/28/2015, this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

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|---------|-----|----------------------------|--------------------|---------|
| 108.514 | 001 | Nitrite as N | SM4500-NO2- B-2000 | |
| 108.529 | 001 | Nitrate-Nitrite (as N) | SM4500-NO3- F-2000 | |
| 108.529 | 002 | Nitrite as N | SM4500-NO3- F-2000 | Interim |
| 108.540 | 001 | Phosphate, Ortho | SM4500-P E | |
| 108.572 | 001 | Sulfate | SM4500-SO4 E | |
| 108.585 | 001 | Sulfide (as S) | SM4500-S= F-2000 | |
| 108.592 | 001 | Biochemical Oxygen Demand | SM5210B-2001 | |
| 108.592 | 002 | Carbonaceous BOD | SM5210B-2001 | |
| 108.596 | 001 | Organic Carbon-Total (TOC) | SM5310B-2000 | Interim |
| 108.605 | 001 | Surfactants | SM5540C-2000 | |
| 108.660 | 001 | Chemical Oxygen Demand | HACH8000 | |

Field of Testing: 109 - Toxic Chemical Elements of Wastewater

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|---------|-----|------------|-----------|--|
| 109.010 | 001 | Aluminum | EPA 200.7 | |
| 109.010 | 002 | Antimony | EPA 200.7 | |
| 109.010 | 003 | Arsenic | EPA 200.7 | |
| 109.010 | 004 | Barium | EPA 200.7 | |
| 109.010 | 005 | Beryllium | EPA 200.7 | |
| 109.010 | 007 | Cadmium | EPA 200.7 | |
| 109.010 | 009 | Chromium | EPA 200.7 | |
| 109.010 | 010 | Cobalt | EPA 200.7 | |
| 109.010 | 011 | Copper | EPA 200.7 | |
| 109.010 | 012 | Iron | EPA 200.7 | |
| 109.010 | 013 | Lead | EPA 200.7 | |
| 109.010 | 015 | Manganese | EPA 200.7 | |
| 109.010 | 016 | Molybdenum | EPA 200.7 | |
| 109.010 | 017 | Nickel | EPA 200.7 | |
| 109.010 | 019 | Selenium | EPA 200.7 | |
| 109.010 | 021 | Silver | EPA 200.7 | |
| 109.010 | 023 | Thallium | EPA 200.7 | |
| 109.010 | 024 | Tin | EPA 200.7 | |
| 109.010 | 026 | Vanadium | EPA 200.7 | |
| 109.010 | 027 | Zinc | EPA 200.7 | |
| 109.020 | 002 | Antimony | EPA 200.8 | |
| 109.020 | 003 | Arsenic | EPA 200.8 | |
| 109.020 | 004 | Barium | EPA 200.8 | |
| 109.020 | 006 | Cadmium | EPA 200.8 | |
| 109.020 | 007 | Chromium | EPA 200.8 | |
| 109.020 | 008 | Cobalt | EPA 200.8 | |
| 109.020 | 009 | Copper | EPA 200.8 | |
| 109.020 | 010 | Lead | EPA 200.8 | |
| 109.020 | 011 | Manganese | EPA 200.8 | |
| 109.020 | 013 | Nickel | EPA 200.8 | |
| 109.020 | 014 | Selenium | EPA 200.8 | |
| 109.020 | 015 | Silver | EPA 200.8 | |
| 109.020 | 016 | Thallium | EPA 200.8 | |
| 109.020 | 017 | Vanadium | EPA 200.8 | |
| 109.020 | 018 | Zinc | EPA 200.8 | |

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|---------|-----|---------------|------------------|
| 109.190 | 001 | Mercury | EPA 245.1 |
| 109.445 | 002 | Chromium (VI) | SM3500-Cr B-2009 |
| 109.449 | 001 | Iron | SM3500-Fe |

Field of Testing: 110 - Volatile Organic Chemistry of Wastewater

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|---------|-----|-----------------------------|---------|
| 110.040 | 000 | Purgeable Organic Compounds | EPA 624 |
|---------|-----|-----------------------------|---------|

Field of Testing: 111 - Semi-volatile Organic Chemistry of Wastewater

| | | | |
|---------|-----|-------------------------------------|---------|
| 111.100 | 000 | Acid/base/neutral Organic Compounds | EPA 625 |
| 111.103 | 000 | Nitrosamines | EPA 625 |
| 111.170 | 030 | Pesticides | EPA 608 |
| 111.170 | 031 | PCBs | EPA 608 |

Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste

| | | | |
|---------|-----|-----------------|-----------|
| 114.010 | 001 | Antimony | EPA 6010B |
| 114.010 | 002 | Arsenic | EPA 6010B |
| 114.010 | 003 | Barium | EPA 6010B |
| 114.010 | 004 | Beryllium | EPA 6010B |
| 114.010 | 005 | Cadmium | EPA 6010B |
| 114.010 | 006 | Chromium | EPA 6010B |
| 114.010 | 007 | Cobalt | EPA 6010B |
| 114.010 | 008 | Copper | EPA 6010B |
| 114.010 | 009 | Lead | EPA 6010B |
| 114.010 | 010 | Molybdenum | EPA 6010B |
| 114.010 | 011 | Nickel | EPA 6010B |
| 114.010 | 012 | Selenium | EPA 6010B |
| 114.010 | 013 | Silver | EPA 6010B |
| 114.010 | 014 | Thallium | EPA 6010B |
| 114.010 | 015 | Vanadium | EPA 6010B |
| 114.010 | 016 | Zinc | EPA 6010B |
| 114.020 | 001 | Antimony | EPA 6020 |
| 114.020 | 002 | Arsenic | EPA 6020 |
| 114.020 | 003 | Barium | EPA 6020 |
| 114.020 | 005 | Cadmium | EPA 6020 |
| 114.020 | 006 | Chromium | EPA 6020 |
| 114.020 | 007 | Cobalt | EPA 6020 |
| 114.020 | 008 | Copper | EPA 6020 |
| 114.020 | 009 | Lead | EPA 6020 |
| 114.020 | 011 | Nickel | EPA 6020 |
| 114.020 | 012 | Selenium | EPA 6020 |
| 114.020 | 013 | Silver | EPA 6020 |
| 114.020 | 014 | Thallium | EPA 6020 |
| 114.020 | 015 | Vanadium | EPA 6020 |
| 114.020 | 016 | Zinc | EPA 6020 |
| 114.103 | 001 | Chromium (VI) | EPA 7196A |
| 114.140 | 001 | Mercury | EPA 7470A |
| 114.141 | 001 | Mercury | EPA 7471A |
| 114.222 | 001 | Cyanide | EPA 9014 |
| 114.230 | 001 | Sulfides, Total | EPA 9034 |

Aqueous Only

| | | | |
|---------|-----|--------------------------------|-----------|
| 114.240 | 001 | Corrosivity - pH Determination | EPA 9040B |
| 114.241 | 001 | Corrosivity - pH Determination | EPA 9045C |
| 114.250 | 001 | Fluoride | EPA 9056 |

Field of Testing: 115 - Extraction Test of Hazardous Waste

| | | | |
|---------|-----|---|---------------------------------------|
| 115.020 | 001 | Toxicity Characteristic Leaching Procedure (TCLP) | EPA 1311 |
| 115.030 | 001 | Waste Extraction Test (WET) | CCR Chapter11, Article 5, Appendix II |
| 115.040 | 001 | Synthetic Precipitation Leaching Procedure (SPLP) | EPA 1312 |

Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste

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|---------|-----|----------------------------|------------|--------------|
| 116.010 | 000 | EDB and DBCP | EPA 8011 | Aqueous Only |
| 116.020 | 030 | Nonhalogenated Volatiles | EPA 8015B | |
| 116.020 | 031 | Ethanol and Methanol | EPA 8015B | |
| 116.030 | 001 | Gasoline-range Organics | EPA 8015B | |
| 116.080 | 000 | Volatile Organic Compounds | EPA 8260B | |
| 116.080 | 120 | Oxygenates | EPA 8260B | |
| 116.100 | 010 | BTEX and MTBE | LUFT GC/MS | |

Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste

| | | | |
|---------|-----|---|-----------|
| 117.010 | 001 | Diesel-range Total Petroleum Hydrocarbons | EPA 8015B |
| 117.110 | 000 | Extractable Organics | EPA 8270C |
| 117.170 | 000 | Nitroaromatics and Nitramines | EPA 8330 |
| 117.171 | 000 | Nitroaromatics and Nitramines | EPA 8330A |
| 117.210 | 000 | Organochlorine Pesticides | EPA 8081A |
| 117.220 | 000 | PCBs | EPA 8082 |
| 117.250 | 000 | Chlorinated Herbicides | EPA 8151A |

Field of Testing: 120 - Physical Properties of Hazardous Waste

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|---------|-----|--------------------------------|--------------------|
| 120.010 | 001 | Ignitability | EPA 1010 |
| 120.040 | 001 | Reactive Cyanide | Section 7.3 SW-846 |
| 120.050 | 001 | Reactive Sulfide | Section 7.3 SW-846 |
| 120.070 | 001 | Corrosivity - pH Determination | EPA 9040B |
| 120.080 | 001 | Corrosivity - pH Determination | EPA 9045C |