

# Microbac Laboratories, Inc.

KNOXVILLE DIVISION  
505 EAST BROADWAY AVE.  
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Page 1 of 2

STATE CERT ID.

TN 02017

CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · CONSUMER PRODUCTS  
WATER · AIR · WASTES · FOOD · PHARMACEUTICALS · NUTRACEUTICALS

## CERTIFICATE OF ANALYSIS

**L. Collins**  
**Tallemsee, TN 37878**

Date Reported 1/31/2009  
Date Received 1/26/2009  
Cust P.O. PAID CC  
Invoice No. 63507  
Cust # W005  
Sample Date 1/26/2009  
Permit No.

Work Order Number: 0901-00815

Subject: WELL WATER CHECK

Test	Method	Result	Qual	Date	Time	Tech
001	<b>WELL WATER 1/26/09 1030</b>					
COLIFORM, TOTAL	SM 9222,B.	0 PER 100ML		1/26/2009	16:00	TJF
HARDNESS, TOTAL AS CaCO <sub>3</sub>	SM 2340 B	11.8 MG/L		1/28/2009	6:21	PAP
SOLIDS, TOTAL DISSOLVED	SM 2540,C.	46.0 MG/L		1/27/2009	13:45	AHT
NITROGEN, NITRATE	EPA 300.0	<0.01 MG/L		1/26/2009	15:30	KLD
IRON	EPA 200.7	<0.050 MG/L		1/28/2009	6:21	PAP
PH	SM 4500-H,B.	5.8 SU		1/26/2009	13:35	KLD
SULFATE	EPA 300.0	1.35 MG/L		1/28/2009	15:30	KLD
LEAD	SM 3113,B.	<0.003 MG/L	J1	1/28/2009	6:21	PAP
COPPER	EPA 200.7	0.92 MG/L		1/28/2009	6:21	PAP

RESPECTFULLY SUBMITTED:

MICROBAC LABORATORIES, INC.

*Thank you for your business. We invite your feedback on our level of service to you. Please contact the Laboratory Director, James Nokes, at 865-977-1200, the COO, Robert Morgan, at rmorgan@microbac.com or the CEO, Trevor Boyce, at tboyce@microbac.com with any comments or suggestions.*

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As regulatory limits change frequently, Microbac advises the recipient of this report to confirm such limits with the appropriate Federal, state, or local authorities before acting in reliance on the regulatory limits provided.

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### QUALIFIER DEFINITIONS:

B = Detected in the associated Method Blank  
C = As Tons CaCO<sub>3</sub>, equivalent per 1,000 tons material  
D = Surrogate recoveries not calculated due to matrix interference and resulting sample dilution  
E1 = Elevated detection limits due to sample matrix interference  
E2 = Elevated detection limits due to high analyte concentration  
H = Analyte was prepared and/or analyzed outside of the analytical method holding time  
I = Spike recovery outside control limits due to sample matrix interference or high analyte concentration  
J1 = Value below quantitation range  
J2 = Value above quantitation range  
K = Inter-element correction applied due to high concentration of non-target analyte  
L1 = Liquid portion of dual phase sample analyzed only  
L2 = Solid portion of dual phase sample analyzed only  
M = Miscellaneous (see entry below analytical results)  
P = Sample received improperly preserved  
R = Relative Percent Duplicate (RPD) outside accepted recovery limits  
S1 = Spike recovery outside recovery limits  
S2 = Surrogate recovery outside of control limits. The data was accepted based on the valid recovery of remaining surrogate.  
U = Undetected  
V = Elevated reporting limits due to insufficient sample volume  
W = Results reports on dry weight basis

### ABBREVIATIONS:

TNTC = Too Numerous To Count  
UG/L = Micrograms per Liter (PPB)  
UG/KG = Micrograms per Kilogram (PPB)  
MG/L = Milligrams per Liter (PPM)  
Positive = Bacteria or target analyte detected

MG/KG = Milligrams per Kilogram (PPM)  
CFU = Colony Forming Unit  
ND = Not Detected at or below the reporting limit  
TIC = Tentatively Identified Compound  
Negative = Bacteria or target analyte not detected

All sample results are reported "as received" unless otherwise noted