

Microbiology Testing Service Guide

Analytical Test

Matrix	Sample Size Container	Preservation	Holding Time Leach/Extr/Analy	Method
Actinomyces spp				
w	100 ml p	4°C	8 hours	SSSA
s	4 oz p	4°C	N/A	SSSA
Aerobic Plate Count (APC) / TPC/Standard Plate Count				
f	4 oz/ orig. cont.	as is	8 hours	CMMEF 7.63
Aerobic Plate Count (cosmetics/products-bam)				
Liq/Sol	4 oz p	N/A	N/A	BAM 23H1
Aerobic Plate Count-N Certified APC / HPC / TPC				
w	4 oz p	4°C	6 hours	SM 9215B
s/ww	4 oz p	4°C	6 hours	SM 9215B
2 dilutions max, \$20 for each additional dilution				
Aerobic Plate Count-Petrefilm				
f	4 oz/ orig. cont.	as is	ASAP	AOAC
Aeromonas				
w/s	4 oz p	N/A	N/A	AOAC/CMMEF
Algal count				
w/ww	4 oz p	4°C	6 hours	SM
Anaerobic Plate Count				
w/s	4 oz p	4°C	6 hours	9215B mod.
Bacterial Count with Gram Stain				
B/Sw/Wi/a	4 oz p	4°C	6 hours	AOAC
Bacterial ID per Species				
B/Sw/Wi/a	4 oz p	4°C	N/A	Various
Campylobacter-N				
f	4 oz/ orig. cont.	as is	6 hours	CMMEF
Campylobacter-N				
w	4 oz p	4°C	6 hours	SM9260G
Clostridium perfringens				
w/s	4 oz p	4°C	6 hours	
f	4 oz/ orig. cont.	as is	ASAP	AOAC/CMMEF

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Denitrifying Bacteria				
w	100 ml p	4°C	8 hours	SSSA
s	4 oz p	N/A	6 hours	SSSA
Denitrifying Bacteria Identification				
w	100 ml p	4°C	6 hours	SSSA
s	4 oz p	N/A	6 hours	SSSA
Drinking Water Package (Total Coliform P/A and HPC)				
w	100 ml p	4°C	6 hour	SM 9223B
E. Coli				
f	4 oz/ orig. cont.	as is	ASAP	CMMEF 35.24
E. Coli H7:0157 including H7-P/A				
w	100 ml p	4°C	6 hours	SM 9260F
f	4 oz/ orig. cont.	as is	ASAP	AOAC 996.09
E. Coli-IDEXX-N Certified				
w	100 ml p	4°C	6 hours	SM 9223B
E. Coli-MF-N				
w	100 ml p	4°C	6 hours	SM 9222G
E. Coli-N-Petrifilm				
f	4 oz/ orig. cont.	as is	ASAP	CMMEF/AOAC
E.Coli-Chromogenic P/A Certified				
w	100 ml p	4°C	24 hour	SM 9223B
Enterococcus-N				
s/ww	4 oz p	4°C	6 hours	SM 9230C
Fecal Coliforms-MF-N Certified				
w	100 ml p	4°C	6 hours	SM 9222D
Fecal Coliforms-MTF-4 dil-N certified				
w	100 ml p	4°C	6 hours	SM 9221E
Fecal Coliforms-N				
s/ww	4 oz p	4°C	6 hours	SM 9222D

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Fecal Streptococcus mF				
w	100 ml p	4°C	6 hours	SM 9215B
Fecal Streptococcus-N				
s/ww	4 oz p	4°C	6 hours	SM 9230C
Filth Test				
various	4 oz p	4°C	NA	AOAC 945.80
Flavobacterium spp.				
w/s	4 oz p	N/A	ASAP	Various
f	4 oz/ orig. cont.	as is	ASAP	Various
Hemolytic Bacterial Count				
w	100 ml p	4°C	6 hours	AOAC/CMMEF
s	4 oz p	N/A	6 hours	AOAC/CMMEF
Heterotrophic Plate Count (HPC) / APC / TPC				
w	100 ml p	4°C	6 hours	SM 9215B
s/ww	4 oz p	4°C	6 hours	SM 9215B
2 dilutions max, \$20 for each additional dilution				
Iron Depositing Bacteria				
s/w	4 oz p	4°C	6 hours	SM 10200
Klebsiella spp.				
f	4 oz/ orig. cont.	as is	ASAP	AOAC/CMMEF
Lactic acid bacteria (Petri-film)				
f	4 oz/ orig. cont.	as is	ASAP	AOAC
Legionella-air culture				
a	air sampler	N/A (RT)	N/A	SM 9260J
Legionella-spp-P/A				
w	100 ml p	4°C	6 hours	SM 9260J
Listeria monocytogenes				
f	4 oz/ orig. cont.	as is	ASAP	AOAC/CMMEF
Listeria spp-P/A				
f	4 oz/ orig. cont.	as is	ASAP	CMMEF BAM/AOAC

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Luminometer Test				
w/s	4 oz p	4°C	6 hours	Bioluminescence
Microscopic Exam				
various	4 oz p	4°C	N/A	SM 10200
Mold by Agar Plate ID 3spp.				
w/s	4 oz p	N/A	6 hours	Viable
Mold by Culture Counts				
B/Sw/Wi/A	4 oz p	N/A (RT)	6 hours	Viable
Mold by Culture ID-3 species				
B/Sw/Wi/A	4 oz p	N/A (RT)	6 hours	Viable
Mold by Direct Exam				
B/Sw/Wi/T	Air Cassette	N/A	N/A	Microscopy
Pseudomonas Aeruginosa				
w	100 ml p	4°C	6 hours	SSSA/SM
s	4 oz p	N/A	6 hours	SSSA/SM
Salmonella Composite				
s	4 oz. P	N/A	N/A	AOAC/CMMEF
f/w	4 oz p	as is/ 4°C	6 hours	AOAC/CMMEF
Salmonella Sero ID Only				
s	4 oz. P	N/A	6 hours	AOAC/CMMEF
f/w	4 oz p	as is/ 4°C	6 hours	AOAC/CMMEF
Salmonella spp.				
w	100 ml p	N/A	6 hours	SM 9260B
f	4 oz/ orig. cont.	as is	ASAP	CMMEF BAM/AOAC
Shigella spp				
f	4 oz/ orig. cont.	as is	ASAP	CMMEF BAM/AOAC
Shigella spp.				
w	100 ml p	N/A	6 hours	SM 9260E/ AOAC

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Staphylococcus Aureus-N Petrifilm				
f	4 oz/ orig. cont.	as is	ASAP	CMMEF/AOAC
Staphylococcus Aureus Coagulase				
f/w/s	Sterile Bag	as is/ 4°C	8 hours	AOAC/CMMEF
Staphylococcus spp.-N				
w	100 ml p	4°C	6 hours	SM 9213B
Sulfate Reducing Bacteria				
w/s	4 oz p	4°C	6 hour	SM 9240D
Total Coliform VRBA				
w/f/s	4 oz p	4°C	6 hours	AOAC/CMMEF
Total Coliforms Chromogenic P/A Certified				
w	100 ml p	4°C	24 hours	SM 9223B
Total Coliforms-IDEXX-N				
w	100 ml p	4°C	6 hours	SM9223B
Total Coliforms-MF-N certified				
w	100 ml p	4°C	6 hours	SM 9222B
Total Coliforms-N				
s/ww	4 oz p	4°C	6 hours	SM 9222D
Total Coliforms-Petrifilm				
f	4 oz/ orig. cont.	as is	ASAP	CMMEF/AOAC
Total Free Nitrogen Fixers + Bradirhizobium				
w	100 ml p	4°C	6 hours	SSSA
s	4 oz. P	N/A	6 hours	SSSA
Total Plate Count (TPC) / APC / HPC				
w	100 ml p	4°C	6 hours	SM 9215B
s/ww	4 oz p	4°C	48 hours	SM 9215B
2 dilutions max, \$20 for each additional dilution				
Total Plate Count-N				
f	4 oz/ orig. cont.	as is	ASAP	CMMEF 7.63

Vibro spp-P/A

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w	100 ml p	4°C	6 hours	SM 9260H
f	4 oz/ orig. cont.	as is	ASAP	CMMEF BAM

Yeast and Mold in Cosmetics

liquid/solid	4 oz p	N/A	N/A	Bam 23H2
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Yeast and Mold-N

w/s/liq	100 ml p	4°C	6 hours	SM 92610B
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Yersinia spp

w/s	4 oz. P	N/A	6 hours	AOAC/CMMEF
f	4 oz/ orig. cont.	as is	ASAP	AOAC/CMMEF

Terms and Abbreviations

a	air
AOAC	Association of Official Analytical Chemists
B	Bulk
BAM	Bacteriological Analytical Manual
C	air-o-cell Casette
CMMEF	Compendium of Methods for the Microbiological Examination of Foods
d	day(s)
E.coli	Escherichia coli
f	food
G	Glass
g	Gram
ID	Identification
ml	millileter
orig. cont	Original Container
oz	ounce
mod	Modified
L	Liter
M	Modified
N/A	Not Applicable
N	Numbers
p	Polyethylene/Plastic
P/A	Presence or Absence
p/g	Plastic/Glass
RT	Room Temperature
s	Soil
SM	Standard Method
spp	Species
SSSA	Soil Science Society of America
Sw	Swab
sw	Solid Waste
T	Tape
VRBA	violet red bile agar
w	Water
ww	Waste Water