

Microbiological Monitoring of Water

EP Chapter ref 0008 /0169 / 01927

Recommended Culture Media	Property	Micro-organisms	Incubation time & temp	Corresponding Redipor medium
R2A Agar	Growth promotion	<i>Pseudomonas aeruginosa</i> <i>Bacillus subtilis</i>	30 - 35°C for ≤ 3 days	R2A Agar

Sterility Testing

EP Chapter ref 20601

Recommended Culture Media	Property	Micro-organisms	Incubation time & temp	Corresponding Redipor medium
Fluid Thioglycollate Medium	Growth promotion	<i>Clostridium sporogenes</i> <i>Pseudomonas aeruginosa</i> <i>Staphylococcus aureus</i>	30 - 35°C for ≤ 3 days	Thioglycollate USP
Soya-Bean Casein Digest Medium	Growth promotion	<i>Aspergillus brasiliensis</i> <i>Bacillus subtilis</i> <i>Candida albicans</i>	20 - 25°C for ≤ 5 days for fungi 20 - 25°C for ≤ 3 days for bacteria 20 - 25°C for ≤ 5 days for fungi	Tryptic Soy Broth

Microbiological Examination of Non-Sterile Products: Microbial Enumeration Tests

EP Chapter ref 20612

Recommended Culture Media	Property	Micro-organisms	Incubation time & temp	Corresponding Redipor medium
Casein Soya Bean Digest Broth	Growth promotion	<i>Bacillus subtilis</i> <i>Pseudomonas aeruginosa</i> <i>Staphylococcus aureus</i>	30 - 35°C for ≤ 3 days	Tryptic Soy Broth
Casein Soya Bean Digest Agar	Growth promotion	<i>Bacillus subtilis</i> <i>Pseudomonas aeruginosa</i> <i>Staphylococcus aureus</i>	30 - 35°C for ≤ 3 days	Tryptic Soya Agar
		<i>Candida albicans</i> <i>Aspergillus brasiliensis</i>	30 - 35°C for ≤ 5 days	
Sabouraud Dextrose Agar	Growth promotion	<i>Candida albicans</i> <i>Aspergillus brasiliensis</i>	20 - 25°C for ≤ 5 days	Sabouraud Dextrose Agar
Potato Dextrose Agar		<i>Aspergillus brasiliensis</i>		Potato Dextrose Agar (EP/ USP)

Tests for Specified Micro-Organisms—EP Chapter ref 20613

Tests for Bile-Tolerant Gram-Negative Bacteria				
Recommended Culture Media	Property	Micro-organisms	Incubation time & temp	Corresponding Redipor medium
Enterobacteria Enrichment Broth - Mossel	Growth promotion	E. coli P. aeruginosa	30 - 35°C for ≤24 hours	EE Broth-Mossel (EP/USP)
	Inhibitory	S. aureus	30 - 35°C for 48 hours	
Violet Red Bile Glucose Agar	Growth promotion & indicative	E. coli P. aeruginosa	30 - 35°C for ≤18 hours	Violet Red Bile Glucose Agar

Test for Escherichia coli				
Recommended Culture Media	Property	Micro-organisms	Incubation time & temp	Corresponding Redipor medium
MacConkey Broth	Growth promotion	E. coli	42 - 44°C for ≤24 hours	MacConkey Broth
	Inhibitory	S. aureus	42 - 44°C for 48 hours	
MacConkey Agar	Growth promotion & indicative	E. coli	30 - 35°C for ≤18 hours	MacConkey Agar (EP/USP)

Test for Salmonella				
Recommended Culture Media	Property	Micro-organisms	Incubation time & temp	Corresponding Redipor medium
Rappaport Vassiliadis Salmonella Enrichment Broth	Growth promotion	Salmonella enterica subsp. enterica serovar Typhimurium or Salmonella enterica subsp.	30 - 35°C for ≤18 hours	Rappaport Vassiliadis Salmonella (RVS) Enrichment Broth (EP/USP)
	Inhibitory	S. aureus	30 - 35°C for 24 hours	
Xylose Lysine Deoxycholate Agar	Growth promotion & indicative	Salmonella enterica subsp. enterica serovar Typhimurium or Salmonella enterica subsp.	30 - 35°C for ≤18 hours	XLD Agar (EP/USP)

Tests for Specified Micro-Organisms—EP Chapter ref 20613

Tests for <i>Pseudomonas aeruginosa</i>				
Recommended Culture Media	Property	Micro-organisms	Incubation time & temp	Corresponding Redipor medium
Cetrimide Agar	Growth promotion	<i>P. aeruginosa</i>	30 - 35°C for ≤18 hours	Cetrimide Agar
	Inhibitory	<i>E. coli</i>	30 - 35°C for 72 hours	

Tests for <i>Staphylococcus aureus</i>				
Recommended Culture Media	Property	Micro-organisms	Incubation time & temp	Corresponding Redipor medium
Mannitol Salt Agar	Growth promotion & indicative	<i>S. aureus</i>	30 - 35°C for ≤18 hours	Mannitol Salt Agar
	Inhibitory	<i>E. coli</i>	30 - 35°C for 72 hours	

Tests for Clostridia				
Recommended Culture Media	Property	Micro-organisms	Incubation time & temp	Corresponding Redipor medium
Reinforced Medium for Clostridia	Growth promotion	<i>Cl. Sporogenes</i>	30 - 35°C for 48 hours (anaerobic conditions)	Reinforced Clostridial Medium
Columbia Agar	Growth promotion	<i>Cl. Sporogenes</i>	30 - 35°C for ≤48 hours (anaerobic conditions)	Columbia Agar

Tests for <i>Candida albicans</i>				
Recommended Culture Media	Property	Micro-organisms	Incubation time & temp	Corresponding Redipor medium
Sabouraud Dextrose Broth	Growth promotion	<i>C. albicans</i>	30 - 35°C for ≤3days	Sabouraud Dextrose Broth (EP/USP)
Sabouraud Dextrose Agar	Growth promotion & indicative	<i>C. albicans</i>	30 - 35°C for ≤24 hours	Sabouraud Dextrose Agar