SABOURAUD DEXTROSE AGAR pH 5.6
w/ and w/o CHLORAMPHENICOL

INTENDED USE
Remel Sabouraud Dextrose Agar pH 5.6 w/ and w/o Chloramphenicol is a solid medium recommended for use in qualitative procedures for the isolation of yeast and molds.

SUMMARY AND EXPLANATION
This medium was developed by Sabouraud in 1892 for the cultivation of dermatophytes.[1] The low pH of 5.6 enhances the growth of fungi, especially dermatophytes, and promotes pigment development.[2] Chloramphenicol is added to inhibit bacteria in clinical specimens.

PRINCIPLE
Casein and meat peptones provide nitrogen, amino acids, and peptides necessary for the growth of yeast and fungi. Dextrose is a carbohydrate source of energy. Chloramphenicol is added to inhibit contaminating bacteria.

REAGENTS (CLASSICAL FORMULA)*
Dextrose	40.0 g	Meat Peptone	5.0 g
Casein Peptone	5.0 g	Agar	15.0 g
		Demineralized Water	1000.0 ml

pH 5.6 ± 0.2 @ 25°C

The following optional ingredient is available per liter of medium:
Chloramphenicol ..... 50.0 mg

*Adjusted as required to meet performance standards.

PROCEDURE
1. Inoculate and streak the specimen as soon as possible after it is received in the laboratory.
2. Consult appropriate references for information about processing and inoculation of specimens. A nonselective medium as well as a selective medium should be inoculated for isolation of fungi from potentially contaminated specimens.
3. Incubate the plates aerobically at 25-30°C in an inverted position with increased humidity for 4 weeks or longer.
4. Examine plates for fungal colonies exhibiting typical color and morphology.

Pour Tube: Melt the pour tube in a boiling water bath and cool to 45-50°C. Mix and dispense into a sterile petri dish and proceed with the instructions above.

QUALITY CONTROL
All lot numbers of Sabouraud Dextrose Agar pH 5.6 w/ and w/o Chloramphenicol have been tested using the following quality control organisms and have been found to be acceptable. This quality control testing meets or exceeds CLSI standards.[3] Testing of control organisms should be performed in accordance with established laboratory quality control procedures. If aberrant quality control results are noted, patient results should not be reported.

CONTROL	INCUBATION	RESULTS
Sabouraud Dextrose Agar pH 5.6:		
**Candida albicans* ATCC® 60193 (or ATCC® 10231)	Ambient, up to 72 h @ 25-30°C	Growth
Cryptococcus neoformans ATCC® 34877	Ambient, up to 72 h @ 25-30°C	Growth
**Trichophyton mentagrophytes* ATCC® 9533	Ambient, up to 72 h @ 25-30°C	Growth
Sabouraud Dextrose Agar pH 5.6 w/ Chloramphenicol:		
**Candida albicans* ATCC® 60193 (or ATCC® 10231)	Ambient, up to 72 h @ 25-30°C	Growth
Cryptococcus neoformans ATCC® 34877	Ambient, up to 72 h @ 25-30°C	Growth
**Trichophyton mentagrophytes* ATCC® 9533	Ambient, up to 72 h @ 25-30°C	Growth
**Escherichia coli* ATCC® 25922	Ambient, up to 72 h @ 25-30°C	Inhibition, partial to complete
Staphylococcus aureus ATCC® 25923	Ambient, up to 72 h @ 25-30°C	Inhibition, partial to complete

*CLSI recommended organism

BIBLIOGRAPHY

1. Sabouraud, R. 1892. Ann. Dermatol. Syphil. 3:1061-1087.
2. Haley, L.D. and C.S. Callaway. 1978. Laboratory Methods in Medical Mycology. U.S. Dept. of H.H.S. CDC, Atlanta, GA.
3. Clinical and Laboratory Standards Institute (CLSI). 2004. Quality Control for Commercially Prepared Microbiological Culture Media; Approved Standard, 3rd ed. M22-A3. CLSI, Wayne, PA.

Refer to the front of Remel *Technical Manual of Microbiological Media* for **General Information** regarding precautions, product storage and deterioration, specimen collection, storage and transportation, materials required, quality control, and limitations.

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IFU 1768, Revised October 4, 2012

Printed in U.S.A.

remel

12076 Santa Fe Drive, Lenexa, KS 66215, USA
General Information: (800) 255-6730 Website: www.remel.com Email: remel@remel.com
Local/International Phone: (913) 888-0939 International Fax: (913) 895-4128

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