PRODUCT INFORMATION

Product Type: Divided Petri Dishes 90mm (DD)

Cat No. DD032 - BLOOD AGAR / CHROMAGAR ORIENTATION

Intended Use:
Blood Agar:
Tryptic Soy Blood Agar Base No. 2 with 50 mL/L donor sheep blood is a robust, nutrient-rich medium for growing and differentiating fastidious bacteria, especially for observing hemolysis patterns.
CHROMagar™ Orientation:
Differentiation of Enterobacteriaceae and Gram-positive urinary tract pathogens by biochemical and enzymatic reactions.

Principle and Uses:
Blood Agar:
Isolation and cultivation of fastidious bacteria (e.g., *Streptococcus, Staphylococcus, Haemophilus*).
Observation of hemolytic reactions (alpha, beta, gamma hemolysis).
Food, clinical, and environmental microbiology for general and specific pathogen detection.

The nutrient-rich base supports the growth of a wide range of organisms. The addition of blood provides additional growth factors and allows for the detection of hemolytic activity, which is useful for differentiating bacterial species

CHROMagar™ Orientation:
is a non-selective chromogenic culture medium intended for use IS the qualitative direct detection, differentiation and presumptive identification of urinary tract pathogens. The test is performed with urine specimens. Results can be interpreted after 18-24 h of aerobic incubation at 35-37 °C.
Concomitant cultures are necessary to recover organisms for further microbiological testing or epidemiological typing. A lack of growth or the absence of colonies on CHROMagar™ Orientation does not preclude the presence of bacteria. CHROMagar™ Orientation is not intended to diagnose infection nor to guide nor monitor treatment for infections. CHROMagar™ Orientation can also be used with veterinary samples.
CHROMagar™ Orientation uses:
the innovative CHROMagar Orientation media with specific chromogenic substrates incorporated in the medium, permitting the simultaneous isolation and differentiation by color of UTI pathogens. The results give a clear visual enumeration and clear visual differentiation by color of gram positive and gram-negative UTI pathogens on a single medium, CHROMagar Orientation.

Limitations And Complementary Tests
CHROMagar™ Orientation:
• Most of *Serratia plymutica* will grow mauve.
• Some *S. saprophyticus* strains can grow in cream-colored colonies.
• Final identification may require additional testing such as biochemical or immunological test.

Composition
Blood Agar:
Tryptone H - 15 g/L,
Soytone - 5 g/L,
Sodium Chloride - 5 g/L,
Agar - 15 g/L
Donor Sheep Blood – 50 ml/L

CHROMagarTM Orientation
Agar - 15.0 g/L
Peptone and yeast extract - 17.0 g/L
Chromogenic mix - 1.0 g/L

Storage: 2-8°C
Appearance:
Blood Agar: Cherry red agar.
CHROMagar™ Orientation: Light Amber
pH Range:
Blood Agar: 7.1 - 7.5
CHROMagar™ Orientation: 6.8 – 7.2

Package contents: 10 plates in a package
Exp. Date: Printed on label and on the item.
Required materials not supplied: Laboratory equipment as required.

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation.
Storage Instructions: On receipt, store plates in the dark at 2–8°C. Avoid freezing and overheating. Do not open until ready to use.

Waste Disposal
After interpretation all items should be destroyed by standard incineration methods.

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Implementation Date: 17/11/25
Version Number: 01

Performance Testing Results:
GPT: inoculum 10-100 cfu.

TEST	ATCC	Incubation Temp. (℃)	Incubation Cond.	Reaction 1 TSA + blood		Reaction 2 CHR. Orientation	
Streptococcus pneumoniae	49619	33-37 ℃	Aerobic, 24 hours	Growth	Alpha hemolytic reaction	/	
Streptococcus pyogenes	19615	33-37 ℃	Aerobic, 24 hours	Growth	Beta hemolytic reaction	/	
Staphylococcus aureus	25923	33-37 ℃	Aerobic, 24 hours	Growth	Beta hemolytic reaction	Growth	White, opaque
Escherichia coli	25922	33-37 ℃	Aerobic, 24 hours	Growth		Growth	Pink-red
Enterococcus faecalis	19433	33-37 ℃	Aerobic, 24 hours	Growth		Growth	Dry, turquoise
Proteus mirabilis	4630	33-37 ℃	Aerobic, 24 hours	Growth		Growth	Clear, beige on beige background
Pseudomonas aeruginosa	27853	33-37 ℃	Aerobic, 24 hours	Growth		Growth	Transparent yellow to green,
Klebsiella pneumoniae	13883	33-37 ℃	Aerobic, 24 hours	Growth		Growth	Mucoid, metallic blue
Candida albicans	10231	33-37 ℃	Aerobic, 24 hours	Growth		Growth	Dry, white, small
Staphylococcus epidermidis	12228	33-37 ℃	Aerobic, 24 hours	Growth		Growth	White, small

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