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Section: Technical Manual	Subject Title: X And V Disks fo	Subject Title: X And V Disks for	
	Identification of Haemo	Identification of Haemophilus	
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X AND V DISKS FOR IDENTIFICATION OF HAEMOPHILUS

Principle

Haemophilus spp. have different requirements for the growth factors X (hemin) and V (NAD). These requirements are determined based on the presence or absence of growth around disks impregnated with V,X and XV factors.

Reagents

1. Bacto Differentiation Disks

BV NAD and 125 units/ml bacitracin BX hemin and 125 units/ml bacitracin BVX NAD, hemin 125 units/ml bacitracin Store refrigerated

2. Mueller Hinton Agar (MHA)

Other Materials

Forceps Swabs Inoculating loop

Procedure

- 1. Pick one colony from CHOC, taking care not to carry over any agar from the medium.
- 2. Inoculate MHA and streak over the entire surface of the plate using a sterile swab.
- 3. Place X, V and XV disks on the surface of the agar in the form of a triangle with at least 30-35 mm between disks.
- 4. Incubate CO₂, 35°C X 18-24 hr.
- 5. Examine the pattern of growth around and/or between the disks.

Interpretation

Growth around the V and XV or the X and XV indicates a requirement for the single growth factor V or X respectively. Growth around only the XV disk indicates a requirement for both factors.

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Precautions

1. Avoid carry-over of growth factors.

Quality Control

Known positive and negative controls must be set up in parallel with the test.

H. influenzae (ATCC 35056): Growth around the XV disk only H. parainfluenzae (ATCC 7901): Growth around V and XV disks

References

1. Difco Package insert, June 1984.