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MAST ID[™] ALA Discs

D49/D49C. For the differentiation of *Haemophilus* spp. by the porphyrin test.

FOR IN VITRO DIAGNOSTIC USE ONLY

Contents: 100 discs in a vial (D49) or a pack of 5 cartridges (D49C), each cartridge containing 50 discs.

Formulation*

Material:	Content per disc:	
δ -aminolaevulinic acid	Зµg	

Storage and shelf life

Store at 2-8°C in the containers provided. Allow to equilibrate to room temperature before opening.

Precautions

For *in vitro* diagnostic use only. Observe approved biohazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet.

Materials required but not provided

Standard microbiological supplies and equipment such as loops, MAST culture media, swabs, applicator sticks, incinerators and incubators, etc., as well as serological and biochemical reagents and additives such as blood.

Procedure

- Using a sterile mounted needle, place a MAST ID[™] ALA disc onto the surface of a plate containing MAST Peptone Agar (DM184).
- 2. Directly inoculate the disc with the test organism by taking a sweep of culture from the primary isolation plate and spreading this lightly over the disc.
- 3. Incubate at 35-37°C aerobically for up to six hours.
- 4. Examine the disc under ultra-violet light (360nm) preferably in a darkened room.

Interpretation of results

Positive Result - Orange/red fluorescence on the MAST ID[™] ALA disc indicates the synthesis of porphyrin and haemin independence. Negative Result- No fluorescence indicates a requirement for pre-formed haemin.

Members of the genus *Haemophilus* can be differentiated by their requirement for growth factors. It is recommended that this test be performed in conjunction with an X&V satellite test using MAST X factor (D43/D43C), V factor (D44/D44C) and X + V factor (D45/D45C) discs or MAST ID[™] MIRROR XV MASTRING. If using MAST ID[™] MIRROR XV MASTRING, two test strains of *Haemophilus* spp. can be tested simultaneously.

	Reaction with disc				
Species		containing:			
	Х	V	ΧV	ALA	
H. influenzae	-	-	+	-	
H. aegyptius	-	-	+	-	
H. parainfluenzae	-	+	+	+	
H. haemolyticus	-	-	+	-	
H. parahaemolyticus	-	+	+	+	
H. ducreyi	+	-	+	-	

Quality control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate a positive reaction and at least one organism to demonstrate a negative reaction. Do not use the product if the reactions with the control organisms are incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain.

Test Organisms	Result	
Haemophilus parainfluenzae	Positive	
ATCC® 7901		
Haemophilus parahaemolyticus	Positive	
ATCC® 10014		
Haemophilus influenzae	Negative	
ATCC® 49766		

Limitations

It is recommended that biochemical and/or serological tests are performed on colonies from pure culture to confirm identification.

References

Bibliography available on request.