

Product Name : Aspergillus Differential Agar

Aspergillus Differential Medium (Agar) is used in the differentiation of *Aspergillus* species based on pigmentation.

FORMULA (G/L)

Pancreatic Digest of Casein.....15.0
Yeast Extract.....10.0
Ferric Citrate.....0.5
Agar.....15.0
Final pH = 6.5 ± 0.2 at 25°C.

DIRECTIONS

Suspend 40.5 G of powder in 1 L of distilled or deionized water. Heat to boiling and shake until completely dissolved. Sterilize in autoclave at 121°C for 15 minutes. Dispense into final tubes. Allow tubes to cool in slanted position.

DEXPLANATION

Aspergillus Differential Agar as a screening medium to detect pigment produced under colonies of *Aspergillus flavus* (flavus group). The yellow-orange pigment differentiates *A. flavus* from most other *Aspergillus* species and from organisms of other genera. Some other *Aspergillus* species may also produce a yellow-orange pigment indistinguishable from the pigment produced by *A. flavus*. is a semi-solid medium, non nutritional, utilized for transport of the specimens to submit to microbiology analysis.

TECHNIC

The isolate to be differentiated should be stained with lactophenol cotton blue or an appropriate fungal stain and examined to confirm that morphology is appropriate for *Aspergillus* species. Using a sterile inoculating loop or needle, pick several isolated colonies and streak the surface of the slant. Incubate the tubes at 25°C for up to 10 days to allow sufficient time for pigmentation to develop.

QUALITY CONTROL

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

Prepared medium

Appearance: clear.

Color: amber.

Incubation conditions: 25°C / up to 10 days.

Microorganism	ATCC	Growth	Characteristics
<i>Aspergillus flavus</i>	46110	good	yellow-orange pigment
<i>Aspergillus sclerotiorum</i>	14307	good	yellow-orange pigment

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STORAGE

The powder is very hygroscopic: store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-6°C.

REFERENCES

1. Bothast and Fennel. 1974. Mycologia. 66:365.
2. Haley and Callaway. 1978. Laboratory methods in medical mycology, 4th ed. Center for Disease Control, Atlanta, Ga.
3. McGinnis. 1980. Laboratory handbook of medical mycology. Academic Press, New York, N.Y.
4. Kennedy and Sigler. 1999. In Murray, Baron, Pfaller, Tenover and Tenover (ed.), Manual of clinical microbiology, 7th ed. American Society for Microbiology, Washington, D.C.

PACKAGING

Cat. No : MB-A0704 Aspergillus Differential Agar	500 G
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