

■ INTENDED USE

RapiGEN Ready-DTM is a solid medium recommended for use in qualitative procedures for the selective isolation of pathogenic fungi (dermatophytes) from cutaneous sources.

■ GENERAL INFORMATION

RapiGEN Ready-DTM is a rapid diagnostic culture medium to facilitate and accelerate determination of the presence of the pathogenic fungi in cutaneous specimens. These fungi are associated with tinea (ringworm) infection of the skin, hair or nails. RapiGEN Ready-DTM is reported to be 97~100% accurate in the detection of dermatophytes.

■ TEST PRINCIPLE

The peptone in this medium supplies the nitrogen and carbon compounds necessary for growth of microorganisms. Dextrose is the energy source. The pH indicator detects alkaline produced by fungi in the medium. Chlortetracycline is incorporated in the medium to inhibit most saprophytic molds. Chloramphenicol inhibits a wide range of gram-positive and gram-negative bacteria. Gentamicin inhibits gram-negative bacteria, including some *Pseudomonas* species.

■ KIT COMPONENTS

Each RapiGEN Ready-DTM kit contains the following:

- 10 pouches, each containing 1 vial.
- 10 I.D. labels
- Instruction for use.

■ SPECIMEN

Hair, Skin, nails and Scales

■ TEST PROCEDURE

1. Collect specimen properly.
2. Place the specimen centrally on the medium surface and press into the medium to ensure firm contact.
3. Close the cap to remain loose so that air may be exchanged during incubation.
4. Incubate aerobically at room temperature for up to 7 days. The test time is beginning evaluation after 24 hours of incubation
5. Examine for a violet color development due to dermatophytes elaborating alkaline metabolites, which elevate the pH of the medium, changing the indicator from yellow to violet.

■ STORAGE

Store at 2~10 °C

The test medium will be stable until expiration date provides it has been stored properly.

■ LIMITATIONS

Some species of saprophytic fungi are capable of producing alkaline metabolites. Some yeast and bacteria may also produce an alkaline reaction.

INTERPRETATION OF RESULTS



Negative



Positive

[Detectable dermatophytes]

1. *Microsporum canis*
2. *Microsporum gypsum*
3. *Microsporum audouini*
4. *Trichophyton mentagrophytes*
5. *Trichophyton tonsurans*
6. *Epidermophyton floccosum*