



MycoStain™, Kit **Chicago Sky Blue Stain for** **diagnosing superficial mycoses**

(Cat. No. B4230)

The new cutting edge fungal stain
from **Biorex Labs!**

*Stains the fungal elements and the
background in contrasting colors!*

Intended Use and Principle:

MycoStain™ is intended for the microscopic examination of tissues suspected of various superficial and cutaneous mycoses such as with Dermatophytes Including *Malassezia* and yeasts such as *Candida*. Pontamine Sky Blue or Chicago Sky Blue is a large molecular weight diazo dye which stains the fungal elements blue whereas the background keratinous issues are stained light pinkish in color.

Composition:

1. Chicago Sky Blue Stain with other proprietary ingredients.
2. Potassium hydroxide 30%

Precautions: Use gloves, goggles and protective lab coat. Potassium hydroxide is corrosive. In case of eye or skin contact, wash with plenty of water for 15 minutes. Seek medical help immediately.

Specimen requirement:

Skin scrapings (glabrous or scalp), nails or hair.

Required materials:

Sterile #10 or 15 scalpel, Petri-dishes, microscope slides, cover slips and a bright field microscope.

Procedure:

1. Cleanse the area with 70% isopropyl alcohol and allow it to dry.
2. Carefully scrape the affected area with the blunt side of a sterile scalpel and collect the scrapings in a Petri dish or onto a clean glass slide. For subungual area use a steril eye

curette, and a sterile nail clipper for affected nails.

3. (Optional) Add a drop of acetone to the scrapings and allow it to dry. This step removes any oily residues or cosmetics that may be present on the tissues.
4. Add a drop of 30% Potassium Hydroxide (provided) to the scrapings.
5. Add one drop of **MycoStain™** solution to the above and let stand at room temperature in a covered Petri dish for at least 30 minutes. Scan with x10 and examine thoroughly with a x40 objective.

Results:

Fungal elements such as hyphae and spores stain **blue**. Background keratinous tissues usually stain from a **light pink to pink and purplish pink**.

Quality Control:

A quality control may be performed by staining any of the common laboratory fungus cultures such as a common mold or *Tinea* spp on a glass slide. Fungal elements should stain **blue** in color.

Availability:

Catalog No. B4230 consists of:

- 1 x MycoStain™ (30 ml)
- 1 x Potassium Hydroxide 30% (30 ml)

References:

1. Crespo Erchiga V, Delgado Florencio V; Curr Opin Infect Dis. 2002 Apr;15(2):133-42. Malassezia species in skin diseases.
2. Lim SL, Lim CSH. New contrast stain for the rapid diagnosis of pityriasis versicolor. Arch Dermatol. 2008 Aug; 144 (8): 1058-9.
3. Lim CSH, Lim SL. New contrast stain for the rapid diagnosis of dermatophytic and candidal dermatomycoses. Arch Dermatol. 2008 Sep; 144 (9): 1228-9.
4. Crespo-Erchiga V, Florencio VD. Malassezia yeasts and pityriasis versicolor. Curr Opin Infect Dis. 2006 Apr;19 (2):139-47.
5. Fonseka S, Lim CSH, Bandara U, Dissanayake M: New Contrast Stain for the Rapid Diagnosis of Dermatophytosis and Pityriasis Versicolor. ACP Lab Medicine, 2011; 42: 649-652

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