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Section: Mycology Bench Manual	Subject Title: Appendix VIII- API 20 CAUX - Yeast Identification System	
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APPENDIX VIII

I. Principle

The API 20C AUX strip consists of 20 microtubes containing dehydrated substrates in which 19 assimilation tests are performed. After inoculation and incubation, the reactions are interpreted by comparison to growth controls and use of the Identification Table provided with each kit.

II. Material

API 20C AUX Strip
Incubation tray
C Medium
Pasteur pipettes (or Plastic pipettes)
Suspension medium
RAT medium

III. Procedure

1. Create a humid atmosphere within an incubation tray by distributing 5 ml of distilled water into the bottom of the tray.
2. Use a cotton swab to suspend a portion of the yeast colony in the suspension medium equal to a 2 McFarland standard.
3. Place 1 drop of yeast suspension into RAT Medium.
4. Transfer 100 µl (3 drops) of RAT Medium suspension into an ampoule of C medium.
5. Using a pasteur pipette, fill the capsules with the suspension in C medium.
6. Put lid on and incubate at 28⁰C x 48-72 hours.
7. After 24, 48 (and 72 hrs if needed) check for growth.
8. Record results onto the supplied report form and compare results with the Identification Table to identify yeast.
9. Record results in the LIS.

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IV. Quality Control

Control strains are set up for each new lot number of strips.

Use the follow isolates:

1. *C. albicans* ATCC 14053
2. *C. guilliermondii* ATCC 6260
3. *C. pseudotropicalis* ATCC 4135

V. References

1. API 20C AUX package insert #20210.