

INSTRUCTIONS FOR USE
This product has not been cleared by the U.S. Food and Drug Administration for In Vitro Diagnostic Use. The product is for Research Use Only. Not for use in diagnostic procedures. Patents Pending.

INTENDED USE
Blood Culture Yeast (BCY) Verification Kit (RUO) can be used to develop procedures for performance verification of sample-to-answer molecular panels that detect nucleic acids from sepsis-causing yeast listed in Table 1. Blood Culture Yeast Verification Kit (RUO) contains two tubes that are composed of a buffered solution with stabilized erythrocytes and leukocytes in a matrix of blood culture media components. Positive Sample: Yeast: *Candida albicans*, *Candida dubliniensis*, *Candida glabrata*, *Candida krusei*, *Candida parapsilosis*, *Candida tropicalis*, *Candida auris*, *Candida kefyr*, *Candida lipolytica*, *Candida lusitanae*, *Candida guilliermondii*, *Cryptococcus neoformans/gattii*, *Candida famata*, *Candida haemulonii/duobushamulonii*. Negative Sample: buffered solution only. This product is not intended to replace manufacturer controls provided.

SUMMARY AND PRINCIPLES
Sepsis (defined as system inflammatory response syndrome in response to infection) is the 11th leading cause of death in the United States¹. Life-threatening bacterial and fungal sepsis currently strikes approximately 240 out of 100,000 people per year in the U.S. (750,000 total cases), with severe sepsis (associated with acute organ dysfunction) in 95 out of 100,000 people². Timely diagnosis and administration of effective treatment can significantly reduce mortality, duration of hospital stays, and costs due to sepsis.

Blood Culture Yeast Verification Kit (RUO) is designed to assist with the development of procedures used to verify performance of molecular testing processes that detect the presence of nucleic acids from various yeast, train personnel, and evaluate operator proficiency.

REAGENTS
Blood Culture Yeast Verification Kit (RUO) contains stabilized human leukocytes and erythrocytes, and the following inactivated yeast (see Table 1) in simulated blood culture media. Each verification kit is supplied with 10 yellow-capped 0.5mL microtubes, each containing 300µL of the Positive Sample formulation, and 10 white-capped 0.5mL microtubes, each containing 300µL of the Negative Sample formulation.

- PRECAUTIONS**
1. Blood Culture Yeast Verification Kit (RUO) is for Research Use Only. Not for use in diagnostic procedures.
 2. **CAUTION:** All blood products should be treated as potentially infectious. All human source material used to manufacture this product was previously established to be negative for the target analytes by a third party; non-reactive for antigens to Hepatitis B (HBsAg), negative by tests for antibodies to HIV (HIV-1/HIV-2) and Hepatitis C (HCV), non-reactive for HIV-1 RNA, and HCV RNA by licensed NAT, and non-reactive to Serological Test for Syphilis (STS), West Nile Virus and Chagas disease. Because no known test method can assure complete absence of human pathogens, this product should be handled with appropriate precautions.
 3. **CAUTION:** All yeast products should be treated as potentially infectious. Source material from which this product was derived was inactivated and tested in accordance with CDC/USDA "Guidance on the Inactivation or Removal of Select Agents and Toxins for Future Use." These procedures cannot offer assurance that products containing yeasts are non-infectious.
 4. These RUO lots should not be disposed of in general waste but should be disposed of with infectious medical waste. Disposal by incineration is recommended.
 5. These RUO lots are intended for use as supplied. Adulteration by dilution or addition of any materials to the vials invalidates the use of the product.

STORAGE
Blood Culture Yeast Verification Kit (RUO) is stored at 2 °C to 25 °C.

INDICATION OF PRODUCT DETERIORATION
Discoloration of the product may be caused by overheating or freezing during shipping or storage. Dark colored (gross hemolysis) supernatant may be indicative of product deterioration. However, light colored (moderate hemolysis) or cloudy supernatant is normal and should not be confused with deterioration of the product.

- INSTRUCTIONS FOR USE**
Adding Verification Sample
1. **Verification samples should be processed in control mode when required per manufacturer's instructions or when given as an option for sample-to-results tests.**
 2. If refrigerated, remove verification tubes from the refrigerator and allow to sit at room temperature to acclimate for 15 minutes before use. Vortex the Positive and Negative Sample tubes at a high speed for 30 seconds. **Note: Always use aseptic technique when handling verification tubes to prevent cross-contamination or environmental contamination.**
 - a. Verify the tube has been adequately mixed by inverting the Positive Sample tube and examining the bottom for the absence of cellular material.
 - b. Flash spin the tube to remove material from cap.
 - c. Open the tube and mix the sample via pipet by repeatedly pipetting up and down 5-10 times.
 3. Remove 300µL of sample and process according to the manufacturer's instructions for sample-to-results tests.
 - a. Each verification tube has sufficient volume for one test and can be discarded after use.
 4. Repeat Steps 1-3 with Negative Sample tube.

LIMITATIONS
Blood Culture Yeast Verification Kit (RUO) should be used in accordance with local, state, federal regulations, and accreditation requirements.

EXPECTED RESULTS
All organisms and resistance genes stated in the control should be "Detected" or "Not Detected," as indicated (see Table 1).

REFERENCES

1. National Vital Statistics Reports, Deaths: Preliminary Data for 2010. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr60/nvsr60_04.pdf.
2. Angus, D.C., et al., Epidemiology of severe sepsis in the United States: analysis of incidence, outcome, and associated costs of care. Crit Care Med, 2001. 29(7): p. 1303-10.

ORDERING INFORMATION
Please call our Customer Service Department 800-228-6090 for assistance. Additional information can be found online at streck.com.

Table 1: Blood Culture Yeast Verification Kit (RUO) Positive Sample and Negative Sample Results Summary

Yeasts		
Target	Positive Sample	Negative Sample
<i>Candida albicans</i>	Detected	Not Detected
<i>Candida dubliniensis</i>	Detected	Not Detected
<i>Candida glabrata</i>	Detected	Not Detected
<i>Candida krusei</i>	Detected	Not Detected
<i>Candida parapsilosis</i>	Detected	Not Detected
<i>Candida tropicalis</i>	Detected	Not Detected
<i>Candida auris</i>	Detected	Not Detected
<i>Candida kefyr</i>	Detected	Not Detected
<i>Candida lipolytica</i>	Detected	Not Detected
<i>Candida lusitanae</i>	Detected	Not Detected
<i>Candida guilliermondii</i>	Detected	Not Detected
<i>Cryptococcus neoformans/C. gattii</i>	Detected	Not Detected
<i>Candida famata</i>	Detected	Not Detected
<i>Candida haemulonii/C. duobushaemulonii</i>	Detected	Not Detected

TECHNICAL SUPPORT
Please call Streck Technical Services at 800-843-0912 for assistance. Additional information can be found online at streck.com.

See the Instructions (IFU) tab under Resources on the product page at streck.com.

See streck.com/patents for patents that may be applicable to this product.

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Streck

7002 S. 109 Street

La Vista, NE 68128 USA

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