

Aug 23, 2024

# C Liquid Growth Medium - Yeast

DOI

dx.doi.org/10.17504/protocols.io.5qpvokr2bl4o/v1



Mathias Hammer<sup>1</sup>, Ammeret Rossouw<sup>1</sup>, Azra Lari<sup>2</sup>, Ben Montpetit<sup>3</sup>, David Grunwald<sup>1</sup>

<sup>1</sup>UMass Chan Medical School, RNA Therapeutics Institute, Worcester, MA, USA;

<sup>&</sup>lt;sup>3</sup>University of California, Department of Viticulture and Enology, Davis, CA, USA



# Mathias Hammer

UMASS Chan Medical School/RTI





DOI: dx.doi.org/10.17504/protocols.io.5qpvokr2bl4o/v1

Protocol Citation: Mathias Hammer, Ammeret Rossouw, Azra Lari, Ben Montpetit, David Grunwald 2024. Liquid Growth Medium -Yeast. protocols.io https://dx.doi.org/10.17504/protocols.io.5qpvokr2bl4o/v1

License: This is an open access protocol distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working We use this protocol and it's working

Created: May 16, 2024

Last Modified: August 23, 2024

Protocol Integer ID: 99988

Keywords: yeast liquid grow medium, yeast medium

**Funders Acknowledgement:** 

NSF

Grant ID: 1917206

<sup>&</sup>lt;sup>2</sup>University of Alberta, Department of Cell Biology, Edmonton, AB, Canada;



### Disclaimer

#### DISCLAIMER - FOR INFORMATIONAL PURPOSES ONLY; USE AT YOUR OWN RISK

The protocol content here is for informational purposes only and does not constitute legal, medical, clinical, or safety advice, or otherwise; content added to protocols.io is not peer reviewed and may not have undergone a formal approval of any kind. Information presented in this protocol should not substitute for independent professional judgment, advice, diagnosis, or treatment. Any action you take or refrain from taking using or relying upon the information presented here is strictly at your own risk. You agree that neither the Company nor any of the authors, contributors, administrators, or anyone else associated with protocols.io, can be held responsible for your use of the information contained in or linked to this protocol or any of our Sites/Apps and Services.

#### Abstract

This protocol describes the steps to prepare liquid culture medium for Saccharomyces cerevisiae.



# **Materials**

### **SC-Ura Powder**

Sunrise Science Products

Cat#: 1306-030 Lot#: 23K3083 Exp: 10/2027

# **Yeast Nitrogen Base Without Amino Acids**

Sigma Life Science Cat#: Y0626-250G Lot#: SLBG0555V

#### **Glucose**

Sunrise Science Products

Cat#: 1907-1kg Lot#: 3A0036

### **Deionized Water**

# **Equipment:**

500 ml laboratory bottle with screw cap 1ml pipette 50 ml pipette stirring hot plate magnetic stirring bar micro scales autoclave



# Before start

Have the following solutions premixed:

**Glucose 20%** 500 ml solution:

Concentration: 200 g/l

mix 100 g Glucose in 500 ml deionized water (ddH $_2$ 0)

Optional:

**SC-xx 10x** 100ml solution: Concentration: 19.2 g/l

 $\rm mix~1.92~g~into~100~ml~ddH_2O$ 

YNB 20x 100ml solution: Concentration: 134.4 g/l

 $mix 13.44 g into 100 ml ddH_2O$ 



1 Compound medium for autoclave

21	ΓFF	o C	Δ	SF

# Medium preparation with pre-resolved components

This version of the protocol shows the preparation of the medium from SC-XX 10x and YNB 20x solutions.

- 1.1 Fill a 500 ml flask with  $\perp$  325 mL ddH<sub>2</sub>0. Add a magnetic stirring bar and place the flask on a stirring hot plate.
- 1.2 Add Add VNB 20x solution (Yeast Nitrogen Base with Ammonium Sulfate without Amino Acids).
- 1.3 Add A 100 mL SC-XX 10x solution.

#### Note

In regard to cover all optional dropout media the amino acid base holds the notification xx, where xx stand for the amino acid(s) that is as selection factor, missing in the medium.

2 Autoclave for (5) 00:15:00 at 1 121 °C.

#### Note

Remove the stirring bar before going to autoclave.

3 

4

#### Note

The medium can be store at the bench for 2 to 3 months.