VERSION 2

AUG 22, 2020

Removal of Melanin V.2

In 1 collection

Jason E Stajich¹

¹UC Riverside

stajichlab

Jason E Stajich

UC Riverside

DISCLAIMER

OPEN ACCESS

DOI:

dx.doi.org/10.17504/protocols.io.bj6zkrf6

External link:

<http://onlinelibrary.wiley.com/doi/10.1111/j.1600-0749.2004.00155.x/abstract>

Protocol Citation: Jason E Stajich 2020. Removal of Melanin. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.bj6zkrf6>

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
This is transcribed from work published in this study <http://dx.doi.org/10.1111/j.1600-0749.2004.00155.x> and <http://1000.fungalgenomes.org/home/protocols/removal-of-melanin/>

Created: Aug 22, 2020

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and does not constitute legal, medical, clinical, or safety advice, or otherwise; content added to [protocols.io](#) is not peer reviewed and may not have undergone a formal approval of any kind.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

Principle is that CTAB is charging the anionic nucleotides whereby neutral polysaccharides/ melanins are remaining in supernatant. This method also uses urea with the idea that the presence of urea helps to solubilize hydrophobic compounds that would otherwise potentially interact with the hydrophobic core of the CTAB micelles.

Last Modified: Dec 14, 2020

MATERIALS

PROTOCOL integer ID:
40889

STEP MATERIALS

⊗ NaCl Merck MilliporeSigma (Sigma-Aldrich) Catalog #53014

⊗ Water Contributed by users

⊗ Guanidine hydrochloride Merck MilliporeSigma (Sigma-Aldrich) Catalog #G3272-1KG

⊗ 70% ethanol Fisher Scientific

⊗ 70% ethanol Fisher Scientific

1

Add

⊗ Water Contributed by users

to ~ 100 μ L - 200 μ L DNA/RNA solution until a volume of 400 μ L is reached.

2

Add 130 μ L 5 Molarity (M)

⊗ NaCl Merck MilliporeSigma (Sigma-Aldrich) Catalog #53014

3

Add 1.6 mL mL of CTAB-Urea solution

Protocol

NAME

CTAB-Urea buffer

CREATED BY

Jason Stajich

PREVIEW

3.1 50 mM Tris-HCl, pH 7.0

3.2 1% CTAB

3.3 4M Urea

3.4 1 mM EDTA

4 Mix samples (by hand).

5 Incubate overnight at 4 °C
Overnight

6 Centrifuge for 00:15:00 at max speed at 4 °C

7 Remove the solution. Be very careful in this step!

8 Resuspended in 400 µL 1M 7 Molarity (M)
Guanidine hydrochloride Merck MilliporeSigma (Sigma-Aldrich) Catalog #G3272-1KG

9 Add 2 2 µL VOLUMES Vol of EtOH (100%)

- 10 Incubate on ice for
01:00:00
- 11 15300 x g, 4°C, 00:15:00
- 12 Wash with
70% ethanol **Fisher Scientific**
- 13 Wash again with
70% ethanol **Fisher Scientific**
- 14 20800 x g, Room temperature, 00:10:00 , (or maximum speed)
- 15 Remove the supernatant.
- 16 Dry pellet
- 17 Resuspend in TE buffer