

Nov 12, 2017 Version 1

Cryptococcus species Genotype and Serotype Analysis V.1

DOI

dx.doi.org/10.17504/protocols.io.kr2cv8e

Junjun Sang¹, Jiu Yi², Wei Fang²

¹Fuzhou General Hospital; ²Changzheng Hospital



Junjun Sang

OPEN  ACCESS



DOI: dx.doi.org/10.17504/protocols.io.kr2cv8e

Protocol Citation: Junjun Sang, Jiu Yi, Wei Fang 2017. Cryptococcus species Genotype and Serotype Analysis. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.kr2cv8e>

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: November 12, 2017

Last Modified: February 10, 2018


Protocol Integer ID: 8730


Keywords: Genotype, Serotype Analysis



Materials

MATERIALS

 Ethyl alcohol, Pure 200 proof, for molecular biology **Merck MilliporeSigma (Sigma-Aldrich) Catalog #E7023**

 isopropyl alcohol

 YPD Broth **Bio Basic Inc. Catalog #SD7022.SIZE.250g**



Genomic DNA was extracted according to the procedures of MasterPure™ Yeast DNA Purification Kit.

1

The internal transcribed spacer (ITS) regions including the 5.8S rDNA clusters were amplified by PCR using the ITS4 and ITS5 sets (ITS4:5-TCCTCCGCTTATTGATATGC-3, ITS5: 5-GGAAGTAAAAGTCGTAACAAGG-3).

2

Acquired sequences were submitted to GenBank and BLAST analysis to determine the identity of the isolates.

3

PCR fingerprinting using the single primer, M13 (5-GAGGGTGGCGGTTCT-3), was used to identify the genotype and serotype of the *C. neoformans* isolates.

4