

🔇 sample prep urine.nan

orked from a private protocol



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Leandro I Ponce: Protocol review; Saraa Al Jawad: Protocol review

OPEN ACCESS



NAN support at UGA





DISCLAIMER

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

original author and source

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ABSTRACT

PROTOCOL integer ID: 85925

This is a modified protocol for NMR metabolomics for urine samples. This method was originally proposed by:

CITATION

Dona AC, Jiménez B, Schäfer H, Humpfer E, Spraul M, Lewis MR, Pearce JT, Holmes E, Lindon JC, Nicholson JK (2014). Precision high-throughput proton NMR spectroscopy of human urine, serum, and plasma for large-scale metabolic phenotyping.. Analytical chemistry.

LINK

https://doi.org/10.1021/ac5025039

See also:

CITATION

Emwas AH, Luchinat C, Turano P, Tenori L, Roy R, Salek RM, Ryan D, Merzaban JS, Kaddurah-Daouk R, Zeri AC, Nagana Gowda GA, Raftery D, Wang Y, Brennan L, Wishart DS (2015). Standardizing the experimental conditions for using urine in NMR-based metabolomic studies with a particular focus on diagnostic studies: a review.. Metabolomics: Official journal of the Metabolomic Society.

LINK

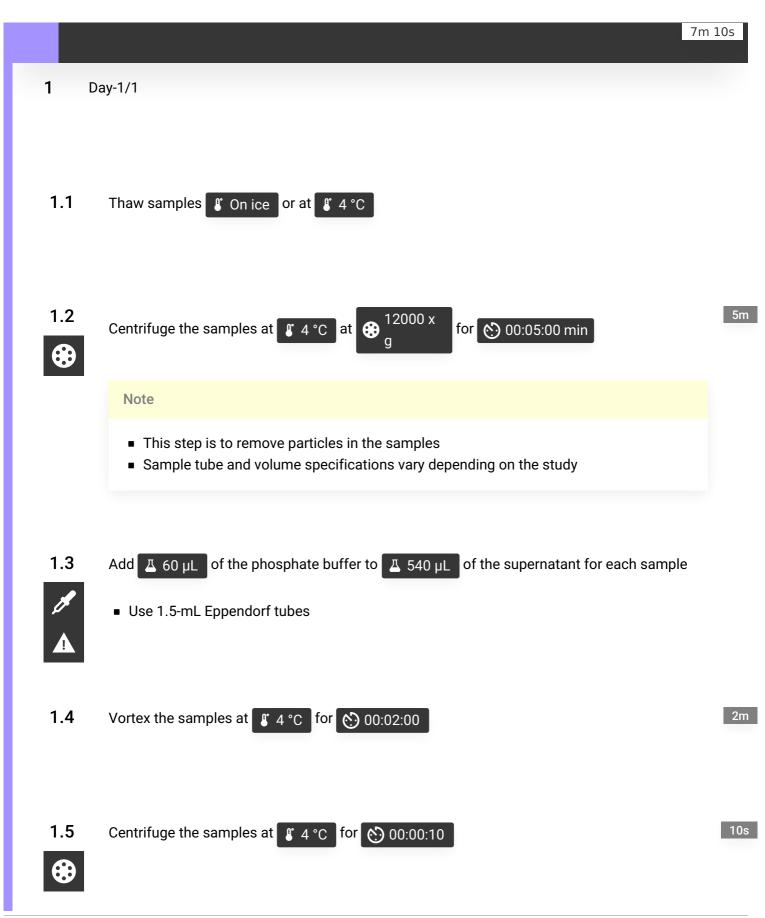
https://link.springer.com/article/10.1007/s11306-014-0746-7

MATERIALS

- 1. Chemicals and reagents
- Phosphate buffer in D20 (1.5 M, pH 7.4, 1.11 mM DSS-d6)
- 2. Equipment
- Calibrated micropipettes (100 μL, 200 μL, and 1000 μL)
- Pippette tips
- 1.5-mL Eppendorf tubes
- 5-mm SampleJet NMR tubes from Bruker
- Centrifuge
- Vortex mixer
- 3. Study samples
- Urine samples

BEFORE START INSTRUCTIONS

This protocol assumes that the original urine samples have >600 μ L.



Note

This step is to remove samples attached to tube caps, and no centrifugation speed specified

Note

No stickers/labels on the caps and tubes allowed