genomics

Singulator™ Nuclei Protocol Submission

Please complete this form as thoroughly as possible. For submission, questions and support, email community@s2genomics.com.
For more information on the Singulator systems, consumables and applications, email inquiries@s2genomics.com.

General Information | Study Identification

Protocol Name: Pig Endometrium Nuclei Isolation

Investigator Name: Wes Warren

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Secondary Investigator(s): Rachel Carroll

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Tissue Species: Pig

Tissue Type: Endometrium

Tissue State: Frozen

Mass (mg): 50-60 mg

Pre-Singulato Processing| Run Summary:

- All samples were stored in -80 freezer prior to isolation.
- Singulator was cooled for ~15 minutes prior to protocol run.
- Standard Nuclei Isolation protocol selected.

Singulator Nuclei Protocol Parameters

Reagents: S2 NSR & NIR

Custom Formulation:

Protocol Type: Standard Nuclei

Auto Mince: ◯ Yes ◉ No

Incubation Time: 0 minutes

Incubation Temperature: Cold

Mixing Type: Top

Mixing Speed: Fastest

Disruption Type: Default

Disruption Speed: Fastest

Post-Singulator Processing

Centrifuge Time & Speed: 500 g for 5 minutes at 4°C

Additional Cleanups/Notes:

- After Standard Nuclei Isolation run on the Singulator, extract suspension from the cartridge and transfer to 15 ml tube.
- Spin at 4°C at 500 g for 5 min.
- Carefully remove and discard supernatant without disturbing the pellet.
- Resuspend the nuclei pellet in 500 uL of NSR+0.4 U/uL RNAse inhibitor.
- Spin down at 4°C at 500g for 5 min.
- Carefully remove and discard the supernatant without disturbing the pellet. Resuspend pellet in 250 uL NSR+0.4 U/uL RNAse inhibitor.