Instructions for collecting single cells (nuclei)

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Single cell collection can be performed using multiple methods, for example, mouth pipette [1], Fluorescence-Activated Cell Sorting (FACS) [2] or CellRaft system [3].

Sample requirement

Single cells (nuclei) in individual 0.1 or 0.2-ml PCR tubes with 2.5 µl 1 x PBS (excluding calcium and magnesium).
Store at -80°C.

Instructions for single cell (nucleus) isolation using FACS

Before FACS

1. Prepare PCR tube strips (with cap strips) with 2.5 µl PBS.
   Caution: Avoid any contamination.
   Suggestion: In PCR workstation or biological safety cabinets.
2. Quick-spin tubes to bring the PBS to their bottom.

After FACS

1. Deposit single cells (nuclei) into PCR strips.
   Caution: Ensure that cells are placed in the middle of the tubes.
2. Quick-spin tubes.
3. Freeze immediately on dry ice.
4. Store at -80°C.

For further assistance, please contact **support@singulomics.com**.

References

1. Spits, C., et al., *Whole-genome multiple displacement amplification from single cells.* Nat Protoc, 2006. **1**(4): p. 1965-70.
2. Basu, S., et al., *Purification of specific cell population by fluorescence activated cell sorting (FACS).* J Vis Exp, 2010(41).
3. http://cellmicrosystems.com/.