

User guide

**BULK-seq**

**Sample**

**Requirements**

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# BULK-seq sample requirements

## Sample types

We accept:

1. Extracted RNA, dissolved in nuclease-free water
2. Cells dissolved in TRIzol (additional fee)

We do not accept:

- Cell pellets
- Cells in lysis buffer

## 1. Extracted RNA

### 1.1. Sample parameters

|                      |   |
|----------------------|---|
| <b>Concentration</b> | 20 ng/ $\mu$ l  |
| <b>Volume</b>        | $\geq$ 5 $\mu$ l  |
| <b>Sample purity</b> | Please check A260/280 and/or RIN value:<br>Recommended A260/280 = 1.8-2.2<br>Recommended RIN $\geq$ 6.0 |
| <b>Buffer</b>        | Nuclease Free Water   |

### 1.2. Storage

|                    |  |
|--------------------|--|
| <b>Container</b>   | (Screwcap) Eppendorf tubes                                   |
| <b>Labeling</b>    | Label tubes clearly and use compatible markers and/or labels |
|                    | Use short unambiguous names (e.g. CTR1, EXP1a, GR2-M3)       |
|                    | Always label your tubes on the lids and the side             |
| <b>Temperature</b> | Store at -80°C, ship on dry ice                              |

## 2. TRIzol samples

### 2.1. Sample parameters

|                    |  |   |
|--------------------|--|---|
| <b>Cell number</b> | Recommended  | 10K – 1M cells/sample<br>equal cell amounts between samples   |
|                    | Minimal amount   | 100 cells/sample (clearly mention this with the sample submission)  |
| <b>Volume</b>      | Cell suspensions   | 100-200 µl TRIzol<br>Pipet the lysate up and down several times to homogenize before freezing.  |
|                    | FACS sorted cells: ≤2000 cells   | 100 µl TRIzol<br>Pipet the lysate up and down several times to homogenize before freezing.  |
|                    | FACS sorted cells: >2000 cells   | to 1 volume of sorted cells, add 3 volumes of TRIzol <b>LS</b> .<br>Pipet the lysate up and down several times to homogenize before freezing. |
| <b>Additional</b>  | Please supply a mock sample, with an equal number of cells, for optimization purposes. |   |

### 2.2. Storage

|                    |  |
|--------------------|--|
| <b>Container</b>   | (Screwcap) Eppendorf tubes                                   |
| <b>Labeling</b>    | Label tubes clearly and use compatible markers and/or labels |
|                    | Use short unambiguous names (e.g. CTR1, EXP1a, GR2-M3)       |
|                    | Always label your tubes on the lids and the side             |
| <b>Temperature</b> | Store at -20°C or -80°C, ship on dry ice                     |

### 3. Shipping instructions

All shipments can be sent to:  
Single Cell Discoveries  
Attn. Lotte Koopman  
Uppsalalaan 8  
3584CT Utrecht  
The Netherlands

*\*it is also possible to personally hand over your samples at this same address. Please let us know via email ([lab@scdiscoveries.com](mailto:lab@scdiscoveries.com)). At the reception, you can ask for Single Cell Discoveries.*

|                          |   |
|--------------------------|---|
| <b>Sample submission</b> | Please complete our online sample submission form before shipment:<br><a href="https://www.scddiscoveries.com/customers/submit-samples/">https://www.scddiscoveries.com/customers/submit-samples/</a> |
|                          | Add the excel form of the sample submission form to the package. This way, our lab team can quickly identify the samples.   |
| <b>Shipping method</b>   | Ship on dry ice.  |
|                          | A <b>minimum of 5 kg dry ice</b> for all EU/USA shipments is required   |
|                          | Please ship the samples on a <b>Monday or Tuesday</b> , to prevent the package from getting stuck over the weekend.   |
|                          | After shipment, please send the tracking code to <a href="mailto:lab@scdiscoveries.com">lab@scdiscoveries.com</a>   |
| <b>Packaging</b>         | Use a sturdy dry ice box and place it inside a cardboard box.   |
|                          | Include a "this side up" marking on the box.  |
| <b>Sample packing</b>    | Close the tubes well  |
|                          | Wrap the tubes tightly in parafilm  |
|                          | Secure the tubes in an Eppendorf box with an insert   |
|                          | Make sure the samples are upright within the package, not sideways or upside down.  |