Sample Guidelines



These sample guidelines will help you to understand which material we can process and use in our assays. Furthermore, it gives an orientation how much material is needed for the different analyses and therefore should be shipped.

Please note that we perform a quality control on incoming samples and therefore always need 5µl extra material.

Primary material Bone marrow puncture: 5-10 ml

Blood collection: 5-10 ml Liquid biopsy > 5-10 ml

Cryopreserved cells (transport on dry-ice): 5 mio cells

Buccal swap: 1 swap fingernails: 5 cuts

Paraffin sections: 1-2 slices or rolls

Genome Sequencing Sample type: genomic DNA

Sample purity: 1.8-2.0 (OD260/280)

Recommended quantity: 600ng – 1.2µg, >20ng/µl Resuspension buffer: water, EB, or low TE (<0.1 mM EDTA)

RNA Sequencing Sample type: total RNA

Sample purity (protein contaminants): 1.8-2.0 (OD260/280) Sample purity (other contaminants): >1.5 (OD260/230)

Sample integrity: RIN >5

Recommended quantity: 750ng, >50ng/µl Resuspension buffer: nuclease-free water

Transport: on dry-ice

Exome Sequencing Sample type: genomic DNA

Sample purity: 1.8-2.0 (OD260/280) Recommended quantity: 600ng, >20ng/µl

Resuspension buffer: water, EB, or low TE (<0.1 mM EDTA)

Targeted Sequencing Sample type: genomic DNA

Sample purity: 1.8-2.0 (OD260/280) Recommended quantity: 600ng, >20ng/µl

Resuspension buffer: water, EB, or low TE (<0.1 mM EDTA)

Methylation Sequencing Sample type: genomic DNA

Sample purity: 1.8-2.0 (OD260/280) Recommended quantity: 800ng, >20ng/µl

Resuspension buffer: water, EB, or low TE (<0.1 mM EDTA)

Sequencing only The required pool concentration depends largely on the assay used

and the flow cell targeted. Therefore, a few typical examples are

given below:

WGS Pool, S4 Flow cell: >15ng/µl, >35µl WTS Pool, S2 Flow cell: 5ng/µl, >15µl

WES or Panel Pool, S2 Flow cell: 5ng/μl, >15μl WES or Panel Pool, S1 Flow cell: 4ng/μl, >15μl