



DNA Sample Requirements

The DNA amounts below are recommended quantities where the quantification is performed with a fluorescence-based method like picogreen.

If you quantify the DNA amount using an UV-spectrum-based method like nanodrop, you should prepare a solution with 30-50 ng/μl DNA concentration as described below.

Human Whole Genome Resequencing:

Purity: $OD_{260/280} = 1.8 \sim 2.0$ without degradation and RNA contamination

Concentration: ≥ 30 ng/μl

DNA amount: ≥ 3 μg total sample quantity of a single sample will result in approximately 90 Gb clean data (~30X)

Human Whole Genome Resequencing (PCR-free method):

Purity: $OD_{260/280} = 1.8 \sim 2.0$ without degradation and RNA contamination

Concentration: ≥ 30 ng/μl

DNA amount: ≥ 4 μg total sample quantity of a single sample will result in approximately 90 Gb clean data (~30X)

Whole Genome Resequencing FFPE Sample Requirements:

Condition: DNA samples without RNA contamination

Purity: $OD_{260/280} = 1.8 \sim 2.0$

Input amount: ≥ 2 μg. 2 or more libraries are recommended for a sequencing depth 50X

Whole Genome Resequencing FFPE Sample Requirements (PCR-free method):

Condition: DNA samples without RNA contamination

Purity: $OD_{260/280} = 1.8 \sim 2.0$

Input amount: ≥ 3 μg. 2 or more libraries are recommended for sequencing depth 50X

Exome/Target Sequencing:

Purity: $OD_{260/280} = 1.8 \sim 2.0$, without degradation and RNA contamination

Sample concentration: ≥ 30 ng/μl

DNA amount: ≥ 1 μg total sample quantity of a single sample.



FFPE Sample Requirements

Condition: DNA samples without RNA contamination

Purity: $OD_{260/280} = 1.8 \sim 2.0$

Input amount: $\geq 2 \mu\text{g}$

More than 100 fold sequencing depth is recommended.

DNA sample needs to be shipped and stored on ice (short term) or dry-ice (long term).

Tissue Sample Requirements

Saliva : **2 ml** sample volume in Oragen (DNA Genetec or equivalent) kit

Ship and Store at room temperature

FFPE : **100 mm² in size and 100 μm thick**

Ship and Store at room temperature

Tissue : $\geq 1 \text{ g}$

Fresh Tissue or Deep-Frozen Tissue stored in Liquid Nitrogen

Ship on Dry Ice

Shipping Information

- **Please e-mail sample information and shipping details to Dr. Sun Jae Kwon, before sending the sample.**
- **The declaration letter needs to be included in the package to clear customs. Please prepare the declaration letter on a company or institution letterhead.**

Attn: Dr. Sun Jae Kwon

e-mail: sjaes@eonediagnostics.com

Phone: +82 10 5425 8877

Address : **Eone-Diagnomics Genome Center**

Harmony-ro 291, Incheon-si, Yeonsu-gu, 406-840, South Korea



Declaration Letter

Date :

To whom it may concern:

This is to certify that the shipment contains ____ tissue sample(s) that is for Research Use Only (RUO). The samples are derived from human and they are not hazardous, not infectious, not HIV-positive, not dangerous, non-toxic and non-radioactive. This shipment has no commercial value. No import license is required for this shipment.

I hereby agree to send the materials to the Eone-Diagnomics Genome Center for research purpose only.

Thank you for your attention.

(Signature)

(Name)

(Title)

(Institution)

(Address)

(Phone)

(e-mail)