

NGS sample submission guide

Environmental samples

- Follow the instructions below for your sample type and application.
- BaseClear can supply sample collection kits, tubes, barcode stickers, barcoded plates or racks and DNA/RNA Shield solution upon request. Contact your account manager.
- Before sending samples please visit our Order Portal and complete the order information. Provide a PRINTED version of your order form with the shipped samples. **Samples received without an order form may cause delay in project and may apply extra fee.**
- The material provided by the customer must be sufficient for required downstream analysis.
- Deliver environmental samples frozen in DNA/ RNA Shield solution in lysis tubes (Zymo Research). Unless indicated otherwise below. Other tubes and buffers or no buffer are considered custom and extra fees may apply.
- Send tubes in freezer compatible coated cardboard or plastic boxes positioned in order, clearly labelled.

Biosafety regulations:

BaseClear can only process micro-organisms of biosafety Class I and II according to European regulations. The customer has the responsibility not to ship samples that might contain class III or IV organisms according to EU directive 2000/54/EU. For Class III and IV only deactivated DNA and RNA can be provided. Provide samples in clean tubes. Extra fee may apply for additional decontamination work.

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ENVIRONMENTAL SAMPLES for Illumina sequencing



FAECES, GUT CONTENT, DIGESTA

For small faecal samples: approximately 50 mg faeces (size of a pea) can be suspended in 1 ml RNA/DNA Shield solution (Zymo Research) with which one nucleic acid extraction can be performed.

For larger faecal samples: approximately 1 gram faeces can be suspended in 9 ml RNA/DNA Shield solution (1x) (Zymo Research) with which multiple nucleic acid extraction can be performed. For larger quantities consult your account manager.



SOIL

5 gram soil is requested in 10-15 ml tubes sent on dry ice (-80°C).

Not in Shield for DNA extractions!



SWABS

Skin and other swabs (vaginal, oral, plaque, lung, scalp, lesion) are to be sent in 2 ml barcoded lysis tubes supplemented with RNA/DNA Shield solution (2X) (Zymo Research).

We recommend to rub with a prewetted swab 10 times firmly over the skin (5x5 cm) for 10 seconds. Contact your account manager for detailed protocols.



URINE

50 ml urine (in tubes supplemented with 2.8 ml urine conditioning buffer) (Zymo Research). Tubes prefilled with conditioning buffer can be provided. We recommend delivering (mid stream) urine, within 1 week after collection.

Urine samples are to be stored and shipped cooled (not frozen).



DAIRY PRODUCTS

5 ml is requested for milk and yoghurt, and 1 cm³ square for cheese. Store samples by snap freezing.



OTHER

Please contact your account manager how to provide other sample types not listed here.