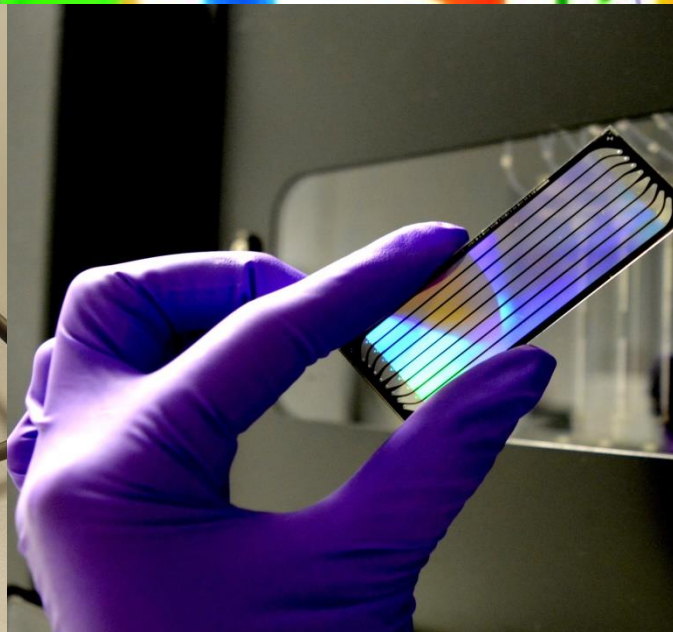
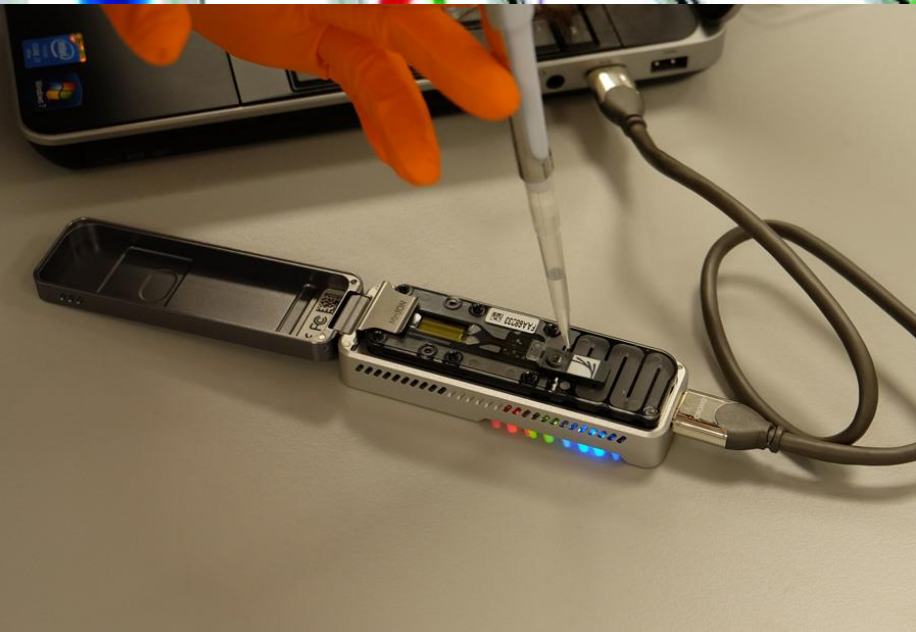


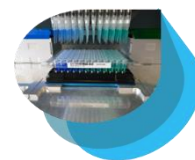
CATALOG AND PRICES

## GENOMICS AND TRANSCRIPTOMICS SERVICES

Microbiology, Agronomy, Environment, Health.

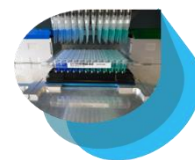
*Prices available from 31/01/2021 to 31/01/2022*





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## SAMPLING AND PREPARATION

Sampling and preparation of matrices	Unit price (€, without VAT)
Sample preparation (cutting, gridding, centrifugation ...)	Price upon request
Filtration of water (0.2 µm filter, sequential filtration)	72,91 €
DNA Extraction by kit with complete Quality Control report	68,94 €
DNA Extraction custom with complete Quality Control report	114,93 €
RNA Extraction custom with complete Quality Control report	149,41 €
High Molecular Weight DNA Extraction custom with complete Quality Control report	188,48 €

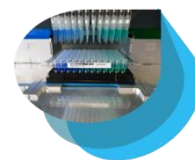
## QUALITY CONTROLS

Quality controls	Unit price (€, without VAT)
Quantitation by absorbance measure - Nanodrop	18,77 €
Quantitation by fluorimetric measure – QuBit	20,56 €
Size fragment analysis by capillary electrophoresis – Fragment Analyzer	41,82 €
Size fragment analysis by pulsed-field capillary electrophoresis – FEMTO	82,34 €

## QUANTITATIVE REAL TIME PCR AND RT-PCR

Taxonomic groups*	Unit price (€, without VAT)
Total Bacteria by quantitative PCR	98,93 €
Total Bacteria by quantitative RT-PCR	111,17 €
Total Archaea by quantitative PCR	98,93 €
Total Archaea by quantitative RT-PCR	111,17 €
Total Eukaryote by quantitative PCR	98,93 €
Total Eukaryote by quantitative RT-PCR	111,17 €
<i>Enterococcus</i> spp. by quantitative PCR	98,93 €
<i>Enterococcus</i> spp. by quantitative RT-PCR	111,17 €
<i>Eubacterium rectale</i> by quantitative PCR	98,93 €
<i>Eubacterium rectale</i> by quantitative RT-PCR	111,17 €

\*concentration expressed in number of copies / unit of fresh sample



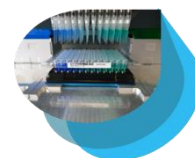
Pathogens*	Unit price (€, without VAT)
<i>Aspergillus fumigatus</i> by quantitative PCR	98,93 €
<i>Campylobacter jejuni</i> by quantitative PCR	98,93 €
<i>Clostridium perfringens</i> by quantitative PCR	98,93 €
<i>Escherichia coli</i> (gene : uiaD A) by quantitative PCR	98,93 €
<i>Legionella pneumophila</i> by quantitative PCR	98,93 €
<i>Legionella</i> spp. by quantitative PCR	98,93 €
<i>Listeria monocytogenes</i> by quantitative PCR	98,93 €
<i>Propionibacterium acnes</i> by quantitative PCR	98,93 €
qPCR assay from the literature	Price upon request

\*concentration expressed in number of copies / unit of fresh sample

Microbial source tracking*	Unit price (€, without VAT)
Human fecal contamination (marker : HF 183- <i>Bacteroides dorei</i> )	98,93 €

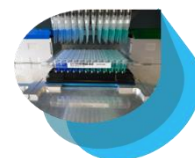
Digital PCR*	Unit price (€, without VAT)
Absolute quantification of target DNA or RNA by digital PCR (QX200, Bio-Rad)	Price upon request

\*concentration expressed in number of copies / unit of fresh sample



Functional genes*	Unit price (€, without VAT)
Methanogenic Archaea (mcrA gene) by quantitative PCR	98,93 €
Methanogenic Archaea (mcrA gene) by quantitative RT-PCR	111,17 €
Sulfate reducing Bacteria (dsr B gene) by quantitative PCR	98,93 €
Sulfate reducing Bacteria (dsr B gene) by quantitative RT-PCR	111,17 €
Reductive dechlorination of chlorinated pollutants (rdh gene of <i>Dehalococcoides</i> spp.) by quantitative PCR	98,93 €
Reductive dechlorination of chlorinated pollutants (rdh gene of <i>Dehalococcoides</i> spp.) by quantitative RT-PCR	111,17 €
Degradation of HAP (PAH-RDH gene) by quantitative PCR	98,93 €
Degradation of HAP (PAH-RDH gene) by quantitative RT-PCR	111,17 €
Anaerobic degradation of mono-aromatic rings (HAP, NP and PCB) (bssa gene) by quantitative PCR	98,93 €
Anaerobic degradation of mono-aromatic rings (HAP, NP and PCB) (bssa gene) by quantitative RT-PCR	111,17 €
Genes of key enzymes of the nitrogen cycle (amoA gene of Bacteria, amoA gene of Archaea, nor A, hao, nirK, norB, nxrA, napA, narG, <i>Anammox</i> ) by quantitative PCR	98,93 €
Genes of key enzymes of the nitrogen cycle (amoA gene of Bacteria, amoA gene of Archaea, nor A, hao, nirK, norB, nxrA, napA, narG, <i>Anammox</i> ) by quantitative RT-PCR	111,17 €
Antibiotic resistances (Betalactamines: bla gene) by quantitative PCR	98,93 €
Antibiotic resistances (Betalactamines: bla gene) by quantitative RT-PCR	111,17 €
Antibiotic resistances (Aminoglycosides: aph gene) by quantitative PCR	98,93 €
Antibiotic resistances (Aminoglycosides: aph gene) by quantitative RT-PCR	111,17 €
Antibiotic resistances (Macrolides: erm gene) by quantitative PCR	98,93 €
Antibiotic resistances (Macrolides: erm gene) by quantitative RT-PCR	111,17 €
Antibiotic resistances (Sulfonamides: Sul I and Sul II genes) by quantitative PCR	98,93 €
Antibiotic resistances (Sulfonamides: Sul I and Sul II genes) by quantitative RT-PCR	111,17 €
Antibiotic resistances (Fluoroquinolones: qnrA gene) by quantitative PCR	98,93 €
Antibiotic resistances (Fluoroquinolones: qnrA gene) by quantitative RT-PCR	111,17 €

\*concentration expressed in number of copies / unit of fresh sample



## NEXT GENERATION SEQUENCING of complex microbial communities

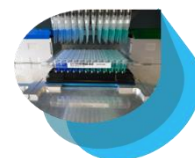
*Applications: biodiversity monitoring, contamination surveillance, development of pharmaceutical or agrochemical products, crop growth, biofuel production, water quality, evaluation of antibiotic resistance, impacts of industrial activities...*

Microbiome Sample Analysis - Diversity and Abundance	Unit price (€, without VAT)
<b>Characterization of microbial diversity (Bacteria, Archaea, Eukaryote, or Microalgae) by NGS Illumina MiSeq (30 000 to 100 000 raw reads) and bioinformatics analysis</b> Sequencing, cleaning and trimming of reads, identification and measure of abundances at genus level, database in Excel format, rarefaction curves, diversity indexes and heatmap, interactive report, exportable graphs and figures	106,59 €
<b>Starting from 8 samples in a batch: Characterization of microbial diversity (Bacteria, Archaea, Eukaryote, or Microalgae) by NGS Illumina MiSeq (30 000 to 100 000 raw reads) and bioinformatics analysis</b> Sequencing, cleaning and trimming of reads, identification and measure of abundances at genus level, database in Excel format, rarefaction curves, diversity indexes and heatmap, interactive report, exportable graphs and figures	87,02 €
<b>Tailored statistical analyses of metadata</b>	Price upon request
<b>NGS MiSeq (30 000 to 100 000 raw reads)</b> Raw data, fastaQ production	Price upon request

Microbiome Sample Analysis with the addition of functional analysis	Unit price (€, without VAT)
Whole or ShotGun metagenomics by Illumina (MiSeq, NovaSeq6000)	Price upon request***
Metatranscriptomics by Illumina (NovaSeq6000 )	Price upon request***

\*\*\*The price is dependent on the number of multiplexed samples

Environmental DNA applications in biomonitoring (eDNA)	Unit price (€, without VAT)
Characterization of Benthic diatoms diversity	Price upon request
Development of eDNA test for any specific aquatic species or group of species	Price upon request



## NEXT GENERATION SEQUENCING

of plants, animals or microbial species

Genomics	Unit price (€, without VAT)
Whole genome sequencing (WGS) by Illumina (MiSeq, NovaSeq6000)	Price upon request***
Whole genome sequencing (WGS) by Oxford Nanopore ** or PacBio	Price upon request***
Targeted resequencing by Illumina (MiSeq, NovaSeq6000)	Price upon request***

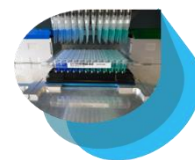
\*\*only for research projects in collaboration

Epigenomics	Unit price (€, without VAT)
Bisulfite-seq sequencing by Illumina NovaSeq6000	Price upon request***
MicroRNA analysis by microarrays technologies	Price upon request***

Genotyping	Unit price (€, without VAT)
Targeted genotyping by Illumina MiSeq	Price upon request***

Transcriptomics	Unit price (€, without VAT)
De novo transcriptomics sequencing by Illumina (NovaSeq6000)	Price upon request***
mRNA sequencing by Illumina (NovaSeq6000)	Price upon request***
Expression profiling by microarrays technologies	Price upon request***

\*\*\*The price is dependent on the number of multiplexed samples



## BIOINFORMATICS SERVICES

From microbial NGS data	Unit price (€, without VAT)
Taxonomic assignment using ANI (Average Nucleotide Identity )	Price upon request
De novo prokaryotic genome assembly (short and long reads)	Price upon request
Gene prediction and automated genome annotation	Price upon request
Functional analysis for genome annotation using gene ontology terms	Price upon request
Antibiotic resistance gene profiling from genome annotation	Price upon request
Genotype and SNP Calling - Variant Calling with reference genome	Price upon request
Identification of Differentially Expressed Genes in RNA-seq data with ribodepletion	Price upon request
Functional analysis for RNA-seq using gene ontology terms	Price upon request

From eukaryotic NGS data	Unit price (€, without VAT)
Genotype and SNP Calling - Variant Calling	Price upon request
Identification of Differentially Expressed Genes in RNA-seq Data ( mRNA enrichment )	Price upon request
Functional analysis for RNA-seq using gene ontology terms	Price upon request

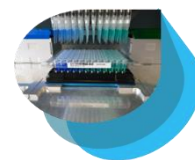
  

From Metagenomic WGS data	Unit price (€, without VAT)
Characterization of microbial diversity	Price upon request
Basic microbial functional analysis using gene ontology terms	Price upon request
De novo meta-assembly and automated annotation for microbial community	Price upon request
Antibiotic resistance gene profiling from annotated genes or WGS raw data	Price upon request

Others	Unit price (€, without VAT)
Plasmid assembly with recircularization, from whole genome sequencing data	Price upon request





## TAILORED ANALYSIS – FEASIBILITY STUDIES

Our experimental platforms offer a set of advanced equipment allowing the implementation of tailored experimental protocols answering specific questions.

INRAE Transfert also offers a wide range of laboratory or pilot scale tests:

- Answer to research questions arising from industrial problems,
- Development of specific protocols,
- Carrying out bioinformatic and biostatistical analyses adapted to your needs,
- Design of primers for different molecular tools (molecular fingerprint, quantitative PCR, sequencing),
- Analysis and interpretation of NGS data based on your questions,
- Development of new indexes of diversity or microbiological monitoring.

INRAE Transfert also offers support for the design of your sampling plans, DNA/RNA extraction, sequencing strategies and bioinformatic/biostatistic datamining.

### FOR ANY QUOTATION, PLEASE CONTACT OUR TECHNICAL SERVICE:

Clémence Genthon

Phone: +33 (0)6 78 90 11 68

Email: [clemence.genthon@inrae.fr](mailto:clemence.genthon@inrae.fr)

Maxime Manno

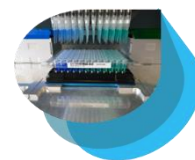
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Marina Moletta-Denat

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Email: [marina.moletta-denat@inrae.fr](mailto:marina.moletta-denat@inrae.fr)



## SUPPLIES – SAMPLING – ORDERING

In order to facilitate your analysis, INRAE Transfert has at your disposal plastic and/or glass containers (plastic bags, bottles, plastic canisters) as well as sampling and storage protocols adapted to your samples and analyses.

### ORDERING YOUR SAMPLING SUPPLIES:

We can take care of your supplies and transports. Specify your need when you request a quote:

- Containers (plastic bags, bottles, plastic canisters...)
- Packaging (cardboard boxes, coolers ...)
- Prepaid Shipping Tickets
- Frequency of shipment of supplies.

Your sample pack will be delivered to you by carrier.

### ORDERING ANALYSES

By email: [contact-get-it@inrae.fr](mailto:contact-get-it@inrae.fr)

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