



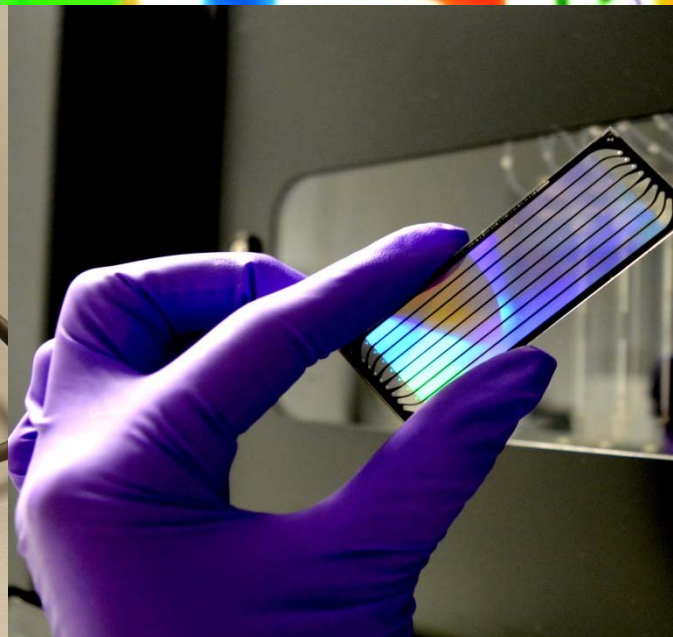
INRA *Transfert*
Genome & Transcriptome

CATALOG AND PRICES

GENOMICS AND TRANSCRIPTOMICS SERVICES

Microbiology, Agronomy, Environment, Health.

Prices available from 31/01/2019 to 31/01/2020



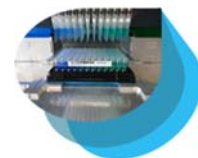
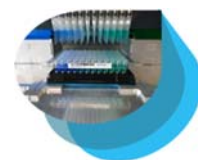


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SAMPLING AND PREPARATION

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 with complete Quality Control report	112,93 €
RNA Extraction with complete Quality Control report	154,90 €

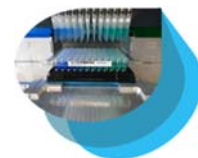
QUALITY CONTROLS

Quality controls	Unit price (€, without VAT)
Quantitation by absorbance measure - Nanodrop	17,09 €
Quantitation by fluorimetric measure – QuBit	18,56 €
Size fragment analysis by capillary electrophoresis – Fragment Analyzer	38,09 €
Size fragment analysis by pulsed-field capillary electrophoresis – FEMTO	74,73 €

QUANTITATIVE REAL TIME PCR AND RT-PCR

Taxonomic groups*	Unit price (€, without VAT)
Total Bacteria by quantitative PCR	100,96 €
Total Bacteria by quantitative RT-PCR	114,51 €
Total Archaea by quantitative PCR	100,96 €
Total Archaea by quantitative RT-PCR	114,51 €
Total Eukaryote by quantitative PCR	100,96 €
Total Eukaryote by quantitative RT-PCR	114,51 €
<i>Clostridium coccooides</i> by quantitative PCR	100,96 €
<i>Clostridium coccooides</i> by quantitative RT-PCR	114,51 €
<i>Enterococcus</i> spp. by quantitative PCR	100,96 €
<i>Enterococcus</i> spp. by quantitative RT-PCR	114,51 €
<i>Eubacterium rectale</i> by quantitative PCR	100,96 €
<i>Eubacterium rectale</i> by quantitative RT-PCR	114,51 €
<i>Lactococcus lactis cremoris</i> by quantitative PCR	100,96 €
<i>Lactococcus lactis cremoris</i> by quantitative RT-PCR	114,51 €

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



Pathogens*	Unit price (€, without VAT)
<i>Aspergillus fumigatus</i> by quantitative PCR	100,96 €
<i>Campylobacter jejuni</i> by quantitative PCR	100,96 €
<i>Clostridium perfringens</i> by quantitative PCR	100,96 €
<i>Escherichia coli</i> (gene : uiaD A) by quantitative PCR	100,96 €
<i>Legionella pneumophila</i> by quantitative PCR	100,96 €
<i>Legionella</i> spp. by quantitative PCR	100,96 €
<i>Listeria monocytogenes</i> by quantitative PCR	100,96 €
<i>Propionibacterium acnes</i> by quantitative PCR	100,96 €
<i>Pseudomonas aeruginosa</i> by quantitative PCR	100,96 €
<i>Pseudomonas syringae</i> by quantitative PCR	100,96 €
<i>Saccharopolyspora rectivirgula</i> by quantitative PCR	100,96 €
<i>Staphylococcus</i> spp. by quantitative PCR	100,96 €
<i>Streptococcus</i> spp. by quantitative PCR	100,96 €
qPCR assay from the literature	Price upon request

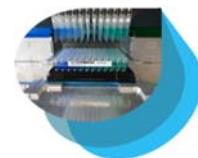
*concentration expressed in number of copies / unit of fresh sample

Microbial source tracking*	Unit price (€, without VAT)
Human fecal contamination (marker : HF 183- <i>Bacteroides dorei</i>)	100,96 €

High-throughput qPCR using microfluidics*	Unit price (€, without VAT)
Target quantification by quantitative high-throughput PCR (Biomark, Fluidigm) 46 to 94 samples/chip and 47 to 95 targets	Price upon request

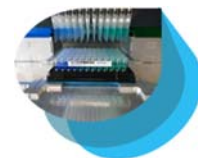
Digital PCR*	Unit price (€, without VAT)
Absolute quantification of target DNA or RNA by digital PCR (QX200, Bio-Rad)	Price upon request

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



Functional genes*	Unit price (€, without VAT)
Methanogenic Archaea (mcrA gene) by quantitative PCR	100,96 €
Methanogenic Archaea (mcrA gene) by quantitative RT-PCR	114,51 €
Sulfate reducing Bacteria (dsr B and dsr A genes) by quantitative PCR	100,96 €
Sulfate reducing Bacteria (dsr B and dsr A genes) by quantitative RT-PCR	114,51 €
Reductive dechlorination of chlorinated pollutants (rdh gene of <i>Dehalococcoides</i> spp.) by quantitative PCR	100,96 €
Reductive dechlorination of chlorinated pollutants (rdh gene of <i>Dehalococcoides</i> spp.) by quantitative RT-PCR	114,51 €
Degradation of HAP (PAH-RDH gene) by quantitative PCR	100,96 €
Degradation of HAP (PAH-RDH gene) by quantitative RT-PCR	114,51 €
Anaerobic degradation of mono-aromatic rings (HAP, NP and PCB) (bssa gene) by quantitative PCR	100,96 €
Anaerobic degradation of mono-aromatic rings (HAP, NP and PCB) (bssa gene) by quantitative RT-PCR	114,51 €
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	100,96 €
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	114,51 €
Antibiotic resistances (Betalactamines: bla gene) by quantitative PCR	100,96 €
Antibiotic resistances (Betalactamines: bla gene) by quantitative RT-PCR	114,51 €
Antibiotic resistances (Aminoglycosides: aph gene) by quantitative PCR	100,96 €
Antibiotic resistances (Aminoglycosides: aph gene) by quantitative RT-PCR	114,51 €
Antibiotic resistances (Macrolides: erm gene) by quantitative PCR	100,96 €
Antibiotic resistances (Macrolides: erm gene) by quantitative RT-PCR	114,51 €
Antibiotic resistances (Sulfonamides: Sul I and Sul II genes) by quantitative PCR	100,96 €
Antibiotic resistances (Sulfonamides: Sul I and Sul II genes) by quantitative RT-PCR	114,51 €
Antibiotic resistances (Fluoroquinolones: qnrA gene) by quantitative PCR	100,96 €
Antibiotic resistances (Fluoroquinolones: qnrA gene) by quantitative RT-PCR	114,51 €

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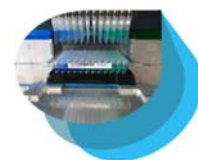
NEXT GENERATION SEQUENCING

of complex microbial communities

Microbiome Sample Analysis - Diversity and Abundance	Unit price (€, without VAT)
NGS Illumina MiSeq (30 000 to 100 000 raw reads) and bioinformatics analyses level 1 Sequencing, cleaning and trimming of reads, raw data of identification to the genus level	102,21 €
Characterization of microbial diversity (Bacteria, Archaea, Eukaryote, or Microalgae) by NGS Illumina MiSeq (30 000 to 100 000 raw reads) and bioinformatics analyses level 2. Sequencing, cleaning and trimming of reads, identification and measure of abundances at genus level, database in Excel format, rarefaction curves, diversity indexes and heatmap	206,27 €
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 analyses level 2. Sequencing, cleaning and trimming of reads, identification and measure of abundances at genus level, database in Excel format, rarefaction curves, diversity indexes and heatmap	144,75 €
Tailored statistical analyses of metadata	Price upon request
NGS MiSeq (30 000 to 100 000 raw reads) 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, HiSeq3000, NovaSeq6000)	Price upon request***
Metatranscriptomics by Illumina (HiSeq3000, NovaSeq6000)	Price upon request***

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



NEXT GENERATION SEQUENCING

of plants, animals or microbial species

Genomics	Unit price (€, without VAT)
Whole genome sequencing (WGS) by Illumina (MiSeq, HiSeq3000, NovaSeq6000)	Price upon request***
Whole genome sequencing (WGS) by Oxford Nanopore **	Price upon request***
Targeted resequencing by Illumina (MiSeq, HiSeq3000, NovaSeq6000)	Price upon request****
Exome sequencing by Illumina (HiSeq3000, NovaSeq6000)	Price upon request***

***only for research projects in collaboration*

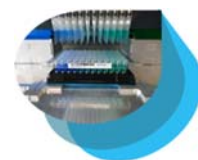
Epigenomics	Unit price (€, without VAT)
Bisulfite-seq sequencing by Illumina HiSeq3000	Price upon request***
MicroRNA analysis by microarrays technologies	Price upon request***

Genotyping	Unit price (€, without VAT)
Genotyping by digesting the genome	Price upon request***
Targeted genotyping by Illumina HiSeq3000	Price upon request***
Targeted genotyping by high throughput qPCR (Biomark, Fluidigm)	Price upon request***

Transcriptomics	Unit price (€, without VAT)
De novo transcriptomics sequencing by Illumina (HiSeq3000, NovaSeq6000)	Price upon request***
mRNA sequencing by Illumina (HiSeq3000, NovaSeq6000)	Price upon request***
Expression profiling by high throughput qPCR (Biomark, Fluidigm)	Price upon request***
Expression profiling by microarrays technologies	Price upon request***

Single cell	Unit price (€, without VAT)
Expression profiling by Illumina HiSeq3000	Price upon request***
Expression profiling by high throughput qPCR (Biomark, Fluidigm)	Price upon request***

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



BIOINFORMATICS SERVICES

From microbial NGS data	Unit price (€, without VAT)
De novo prokaryotic genome assembly (short and long reads)	Price upon request
Gene prediction and automated genome annotation	Price upon request
Phylogenetic tree based on whole-genome sequencing	Price upon request
Genotype and SNP Calling- Variant Calling	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
Characterization of microbial diversity and abundance	Price upon request
Characterization of microbial diversity and abundance with the addition of functional analysis	Price upon request

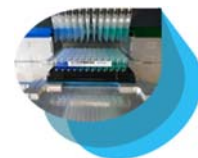
From eukaryotic NGS data	Unit price (€, without VAT)
Genotype and SNP Calling- Variant Calling	Price upon request
Identification of Differentially Expressed Genes in RNA-seq Data (mRNA enrichment)	Price upon request
Functional analysis for RNA-seq using gene ontology terms	Price upon request

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

ANALYSES OF POLLUTED SITES AND SOILS

Functional genes*	Unit price (€, without VAT)
Reductive dechlorination of chlorinated molecules (rdh gene of <i>Dehalococcoides</i> spp.) by quantitative PCR	91,45 €
Reductive dechlorination of chlorinated molecules (rdh gene of <i>Dehalococcoides</i> spp.) by quantitative RT-PCR	103,93 €
HAP degradation (PAH-RDH gene) by quantitative PCR	91,45 €
HAP degradation (PAH-RDH gene) by quantitative RT-PCR	103,93 €
Anaerobic degradation of mono-aromatic rings (HAP, NP and PCB) (bssa gene) by quantitative PCR	91,45 €
Anaerobic degradation of mono-aromatic rings (HAP, NP and PCB) (bssa gene) by quantitative RT-PCR	103,93 €
Pack: DNA/RNA Extraction, PCRq and/or RT-PCRq quantification for one or more targeted genes	Price upon request

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



TAILORED ANALYSES – FEASIBILITY STUDIES

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

INRA 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 bioinformatics 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.

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

FOR ANY QUOTATION, PLEASE CONTACT OUR TECHNICAL SERVICE:

Clémence Genthon

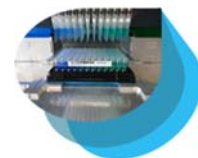
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SUPPLIES – SAMPLING – ORDERING

In order to facilitate your analysis, INRA 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@inra.fr

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