

# ENABLING BIOLOGY FOR FUTURE

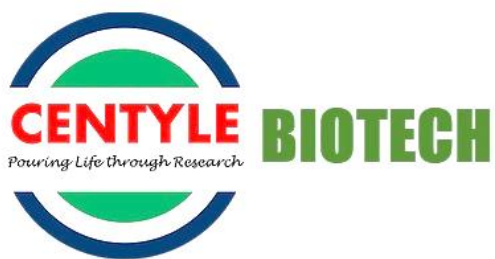


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## CENTYLE BIOTECH SCIENTIFIC RESOURCES & SERVICES

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For more information; please contact [centylebiotech@gmail.com](mailto:centylebiotech@gmail.com)

[www.centylebiotech.com](http://www.centylebiotech.com)

## DNA/RNA Extraction

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Genomic DNA preparation from Biological specimen – DNA yield up to 5µg depending upon type of specimen	CBSEQ11A	Microbial cultures, Environmental sample, Blood, Serum, Plasma, Tissue, Plant specimen, Soil, Algae, Higher Eukaryotes, Insect samples etc.	₹2000 Cost Per Sample	998346	18%
RNA preparation from biological specimen – Yield may vary based on type of specimen	CBSEQ11B	Microbial cultures, environmental sample, blood, serum, plasma, tissue, plant specimen, soil, algae, higher eukaryotes, insect, etc.	₹3000 Cost Per Sample	998346	18%

## Plasmid Extraction

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Isolation of cloned plasmid from bacterial culture	CBSEQ16	Required samples	₹310 Cost Per Clone	998346	18%
Isolation of native wild type plasmid DNA from bacterial isolate	CBSEQ17	Required samples	₹1,650 Cost Per Culture	998346	18%
Restriction mapping of native wild-type plasmid	CBSEQ18	Required samples	₹16500 Cost Per Plasmid	998346	18%
Plasmid DNA isolation from clones and DNA sequencing single pass (500-600 bp sequence data from single pass reaction using ABI BDT v3.1 Cycle Sequencing kit)	CBSEQ3	Cloned culture on plate/stab supplemented with antibiotic, Pure, Isolated culture is must for good quality data	₹1,425 Cost Per reaction (For more than 100 samples)*	998346	18%
Plasmid DNA isolation from clones and DNA sequencing double pass (500-600 bp sequence data from single pass reaction using ABI BDT v3.1 Cycle Sequencing kit)	CBSEQ4	Clones on plate/stab supplemented with antibiotic, Pure, isolated culture is must for good quality data	₹2,000 Cost Per reaction (For more than 100 samples)*	998346	18%

## DNA Cloning

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
PCR amplification and cloning of product up to 500 bases.	CBSEQ22	Genomic DNA/PCR product/PCR primers/PCR conditions.	₹13,100 Cost Per Clone (For less than 4 samples).	998346	18%

## DNA Cloning (contd.)

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
PCR amplification and cloning of product up to 1000 bp	CBSEQ23	Genomic DNA/PCR product/ PCR primers/PCR conditions	₹19,150 Cost Per Clone (For less than 4 samples).	998346	18%
PCR amplification and cloning of product up to 1500 bp	CBSEQ24	Genomic DNA/PCR product/ PCR primers/PCR conditions	₹22,800 Cost Per Clone (For less than 4 samples).	998346	18%
PCR amplification and cloning of product up to 2000 bp	CBSEQ25	Genomic DNA/PCR product/ PCR primers/PCR conditions	₹28300 Cost Per Clone (For less than 4 samples).	998346	18%
PCR amplification and cloning of product up to 2500 bp or more	CBSEQ26	Genomic DNA/PCR product/ PCR primers/PCR conditions	Price On Request	998346	18%
Full length cDNA cloning – cloning based on partial cDNA sequence information, homologous sequences or database sequence information	CBSEQ27	RNA in RNA later or frozen tissue/other biological sample specified and acceptable for project	₹154500 Cost Per Clone (For less than 4 samples).	998346	18%
Gene synthesis and cloning – synthesis of gene, cloning in E- coli system, verification by sequencing and delivery of clone	CBSEQ28	Reference sequence of the gene (Size greater than 130 bp)	Price On Request Cost Per Clone)	998346	18%
cDNA/EST/ Genomic DNA library preparation and sequencing of clones	CBSEQ29	Biological samples. Per 1000 clones screened from library	Price On Request	998346	18%

## Electrophoresis

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Ready to load sequencing reactions	CBSEQ64	Clean up products - Formamide added product	Price On Request Per Reaction	998346	18%
Ready to load capillary electrophoresis reactions	CBSEQ65	Fluorescent labelled PCR products	₹850 Cost Per Reaction	998346	18%
Electrophoresis of DNA/RNA/ plasmid / PCR product on Agarose Gel	CBSEQ68	Required samples	₹1,000 Cost Per 5 Samples	998346	18%
SDS PAGE of isolated purified or crude protein in Mini – sub Gel	CBSEQ69	Required samples	₹8,000 Cost per 5 samples	998346	18%

## Sanger Sequencing

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Sequencing of Native bacterial plasmid	CBSEQ19	Pure plasmid	₹11 Cost Per Base	998346	18%
DNA sequencing single pass for Purified PCR product or plasmid DNA (500-600 bp sequence data from single pass reaction using ABI BDT v3.1 Cycle Sequencing kit)	CBSEQ1*	Purified PCR product / Purified plasmid DNA. If miniprep kit is used we recommend to perform re-precipitation using ethanol before submitting plasmid for sequencing	₹660 Cost Per Reaction (For more than 100 samples)*	998346	18%
PCR product purification and sequencing single pass reaction (500-600 bp sequence data from single pass reaction using ABI BDT v3.1 Cycle Sequencing kit)	CBSEQ2	Un-purified PCR product	₹1,425 Cost Per reaction (For more than 100 samples)*	998346	18%
Gel Elution of PCR product and DNA sequencing (500-600 bp sequence data from single pass reaction using ABI BDT v3.1 Cycle Sequencing kit)	CBSEQ5	Un-purified PCR product	₹1680 Cost Per reaction (For more than 100 samples)*	998346	18%
PCR and sequencing (500-600 bp sequence data from single pass reaction using ABI BDT v3.1 Cycle Sequencing kit)	CBSEQ6	Template DNA (plasmid/genomic DNA) and amplifying primers, PCR conditions provided	₹2550 Cost Per Reaction (For less than 100 samples) Failed PCR will also be charged full	998346	18%
Sequence assembly (DNA sequence assembly using multiple overlapping fragments generated via primer walking; internal primer sequencing, contig sequencing etc)	CBSEQ7	DNA sequences – Chromatogram or FASTA format sequences	₹950 Cost Per Sequence	998346	18%
Manual Basecalling (Basecalling and base editing, trimming of sequences using validated tools for final sequence confirmation, submission purposes)	CBSEQ8	DNA sequences – Electropherograms	₹950 Cost Per Sequence	998346	18%
Failed Sequencing reaction (A sequencing reaction that does not generated quality sequence data resulting as 'Failed reaction')	CBSEQ9	Sequencing samples	₹350 Cost Per Reaction	998346	18%

## Next Generation Sequencing

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Whole genome sequencing – Bacterial, Fungal, Bacteriophage, Yeast, Virus	CBSEQ102	Pure culture on plate, tissue in recommended buffers.. Sequencing on Nova-Seq 6000 platform using True-Seq DNA Nano library up to 3GB Data	₹50,000	998346	18%
Whole Exome Sequencing	CBSEQ103	Genomic DNA Seq upto 10X. Exome capture (SureSelect V5 or V6 post capture kit) & library construction	₹2,40,000	998346	18%
Mitochondrial Genome Sequencing/ Chloroplast Genome Sequencing	CBSEQ104	Mitochondrial / Chloroplast enriched DNA sample. Sequencing on Nova-Seq 6000 platform using True-Seq DNA Nano library	₹60,000	998346	18%
RNA sequencing	CBSEQ105	Total RNA in recommended buffer or ethanol (Minimum 6 samples). Illumina Sequencing - Nova-Seq, 150bp PE, Tru-Seq stranded mRNA library up to 3GB Data	₹45,000	998346	18%
16S/18S/ITS Metagenomics	CBSEQ106	Environmental sample or Metagenomic DNA preparation. Sequencing on Nova-Seq 6000 platform using True-Seq DNA Nano library 500MB Data.	₹18,000	998346	18%
ChIP Sequencing	CBSEQ107	Genomic DNA (12 sample Minimum). Sequencing on Illumina platform.	₹3,60,000	998346	18%
Small RNA Sequencing	CBSEQ108	Small RNA 50X1. Sequencing on Illumina platform. 10 million reads, microRNA Profiling (si, pi, chi, Sno, Sn),	₹50,000	998346	18%
Whole Genome Metagenome Sequencing ( De Novo- Whole Metagenome Sequencing (>50 million reads/ 8GB)	CBSEQWGMG	Sample QC, Library Preparation, Library QC, Data Generation, Raw Data QC, Assembly, Annotation, Biological functions and top pathways, Custom gene-pathway search, draft assembly of individual bacterial genomes (if possible), Plasmid Search, Design of graphs, Pie-Charts, Heat Maps and Data representation.	₹45000	998346	18%
Targeted Sequencing	CBSEQTG	Average effective sequencing depth above 200X on Illumina Paired End 150X2, Somatic SNP/InDel/ calling, annotation and statistics (tumor-normal paired samples)	Price On Request	998346	18%

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Exosome Sequencing and Data Analysis/Extracellular RNA Sequencing	CBSEQEXOS	Data Analysis 60 million Reads, 50X2 Pair End Library RNA QC, Sequencing on Illumina Nova-Seq 6000, Data QC and Analysis <ul style="list-style-type: none"> <li>• Standard Data Analysis</li> <li>-RNA Composition Analysis</li> <li>-Expression Profiles of small RNA (miRNA, piRNA, snoRNA, snRNA, Y RNA, vault RNA) and mRNA</li> <li>-Novel miRNA prediction</li> </ul>	₹45,000	998346	18%
WGBS (Whole Genome Bisulfite Sequencing) Methylation Sequencing) 30X Coverage (60 GB Data)	CBSEQWGBS	The methylation state on the target regions, e.g. CpG islands) can be quantitatively characterized. <ul style="list-style-type: none"> <li>•Standard Data Analysis</li> <li>-Global Methylation Profiles</li> <li>-Specific Methylation Profiles [CG Islands   Differentially Methylation Regions (DMRs)]</li> </ul>	₹1,40,000	998346	18%
Bovine Exome Sequencing	CBSEQBES	DNA QC, Exome Capture using Agilent 'SureSelect non- human Exomes' sequencing using Illumina Nova-Seq 6000 to generation ~ 6.5 GB data/sample. Data QC, Alignment, Calling of variation, Annotation of Variants	₹4,80,000 (Cost Per 8 sample)	998346	18%
Single Cell RNA Sequencing	CBSEQSCRC	Sequencing on Illumina Nova-Seq 6000 Standard Data Analysis: Gene expression and cell clustering analysis Simultaneous single cell analysis of gene expression, immune profiling and cell surface protein expression	₹40,00,000 (Cost Per 8 Sample)	998346	18%
Single Cell ATAC Sequencing	CBSEQSCATC	Sample QC (12000 Live cell count Per sample) and minimum 90GB data Per Lane (22K Reads Per Cells) Sequencing on Illumina Novaseq 6000 Standard Data Analysis Chromatin accessibility profiles and cell clustering analysis	Price On Request	998346	18%
Single Cell Surface protein Profiling	CBSEQSCPP	Sample QC (12000 Live cell count Per sample) and minimum 90GB data Per Lane Sequencing on Illumina Nova-Seq 6000 Standard Data Analysis Surface protein expression and cell clustering analysis	Price On Request	998346	18%

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Single Cell immune Profiling	CBSEQSCIG	Sample QC (12000 Live cell count Per sample) and minimum 90GB data Per Lane (22K Reads Per Cells) Sequencing on Illumina Nova-Seq 6000 Standard Data Analysis Paired full length V(DI) gene sequence identification Clonality and diversity of TCR and/or BCR	Price On Request	998346	18%
Single Cell CNV Profiling (Sample QC (12000 Live cell count Per sample) and minimum 90GB data Per Lane)	CBSEQSCCNV P	Sequencing on Illumina Nova-Seq 6000, Standard Data Analysis Chromatin accessibility profiles Cell clustering analysis [CG Islands   Differentially Methylation Regions (DMRs)]	Price On Request	998346	18%
Single Cell Advanced Data Analysis	CBSEQSCDT	(~ 1TB Data) -Sample aggregation -Gene expression and cell clustering analysis -Cell identification -Differentially Expressed Genes (DEGs) analysis -Gene Ontology analysis -Trajectory analysis	₹10,00,000	998346	18%
Whole Human Genome using Long Read	CBSEQLR	Chemistry CCS- Library Preparation for Long Read Sequencing chemistry PacBio SMRTbell Library sample starting from ~5-20 ng of gDNA to a sufficient quantity for template preparation 90GB Data with standard analysis	₹4,80,000.00	998346	18%
Genome Finishing & De novo Assembly - 100X	CBSEQGF	Long Read Sequencing chemistry Sequencing Platforms: PacBio Sequel, genome finishing, metagenomics, De novo assembly, meta-assembly with long & short reads. •High-quality reads of up to 20Kb	Price on Request	998346	18%
Nanopore Sequencing Data Generation	CBSEQONP	(1 GB) Oxford Nanopore Library, QC and Data Generation	₹75,000	998346	18%
Genotyping by Sequencing (GBS 48 Plate)	CBSEQGBS	Genotyping by sequencing (48 Plex) with standard Analysis	₹3,50,000	998346	18%
Genotyping by Sequencing (GBS 96 Plate)	CBSEQGBS	Genotyping by sequencing (96 Plex) with standard Analysis	₹4,50,000	998346	18%



## Microbial Identification

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
<b>Conserved Gene Sequencing</b> - 16S rDNA, 18S rDNA or ITS region (Using Universal Primers) – deliverable only .ab1 sequences	CBSEQ10	Pure and isolated microbial culture on plate/slant. Pure plant sample. Per 500 bases. Chimeric and will be charged the same	₹4,000	998346	18%
<b>Conserved Gene Sequencing</b> - 16S rDNA, 18S rDNA or ITS region (Using Universal Primers) Data with Primary Report	CBSEQ10F	Pure and isolated microbial culture on plate/slant. Pure plant sample	₹5,500	998346	18%
<b>Express Microbial Identification-</b> Conserved Gene Sequencing- 16S rDNA, 18S rDNA (Using Universal Primers) – >1100 bases sequence in FASTA format, BLAST result, Phylogenetic tree; distance matrix	CBSEQ10D	Pure and isolated microbial culture on plate/slant. Pure plant sample. In case sample is mixed or contaminated culture sequence will be chimeric and will be charged the same	₹7,500	998346	18%
Fungal or yeast identification – LSU rDNA based (800-1400 bp data) - Sequence and phylogenetic data with nearest matches	CBSEQ34	Pure isolate on plate	₹9,350 Cost Per Culture	998346	18%
Plant/Animal/Fish/aquatic species identification using COI gene sequencing. - Sequence and phylogenetic data with nearest matches	CBSEQ40	Specimen tissue sample	₹9,350 Cost Per Sample	998346	18%

## DNA Fingerprinting

Product/Services	Catalog#	Quantity	List price	HSN Code	GST
RAPD analysis using 5 different primers – Bacteria, fungi, yeast, plant, insect, animals, etc.	CBSEQ59	Required samples for analysis in triplicate to confirm reproducibility of the fingerprint data	₹9,150	998346	18%
AFLP analysis using 5 different primer combinations – Bacteria, fungi, yeast, plant, insect, animals, etc.	CBSEQ60	Required samples for analysis	₹9,150 Cost Per Sample	998346	18%
Microsatellite marker analysis using fragment analysis - Plant, insect, animals, etc.	CBSEQ61	Required samples for analysis. Microsatellite panel requirement	Price On Request	998346	18%

## Bioinformatics Analysis

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Chip-Seq & Epigenome Analysis,	CBSEQ109A	Data from Illumina, Pac-Bio or Thermo Fisher. Cost based on data size, Global Methylation profiling, CG Islands, Differentially Methylation	Price On Request	998346	18%
Whole Genome Sequence data assembly and annotation	CBSEQ109B	WGS data up to 10GB data. Cost based on size of genome, reference sequence and coverage	₹30,000	998346	18%
RNA-Seq data analysis, Gene Expression analysis	CBSEQ110A	RNA-Seq data. Cost based on number of reads and data size	₹25,000	998346	18%
De Novo Transcriptome Analysis	CBSEQ110B	Steps involved are Raw Data QC, Assembly, Annotation, Differential Gene Expression, Design of graphs, Pie-Charts, Heat Maps	₹30,000	998346	18%
De Novo Meta-Transcriptome Analysis :	CBSEQ110C	Steps involved are Raw Data QC, Assembly, Annotation, Classification of RNA Family and cumulative function, Top Biological functions, Gene Search, Differential Gene expression, Design of Graphs, Pie Chart, Heat Maps	₹35,000	998346	18%
Alignment based (BLAST based) Meta-Transcriptome Analysis (>70 Million Reads)	CBSEQ110D	Steps involved are Raw Data QC, Assembly, Annotation, Classification of RNA Family and cumulative function, Top Biological functions, Gene Search, Differential Gene Expression, Design of graphs, Pie-Charts, Heat Maps.	₹20,550	998346	18%
De Novo Analysis of small RNA(15-50 million reads)	CBSEQ110E	Raw Data QC, Classification of small RNA Families (miRNA, siRNA, piRNA,etc), Annotation, binning into known and novel, functional prediction (target prediction), association with transcriptome  Note: Cost Per Analysis Package	₹20,000	998346	18%

## Bioinformatics Analysis (contd.)

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
16S (V3-V4)Bacterial/ITS Fungal Metagenome Sequencing Analysis(0.5-2 Million reads):	CBSEQ110F	Raw Data, read clustering, Filtering of Chimera and PCR artifacts, classification of OTU's, functional association, rarefaction curve, estimation of diversity (alpha, beta & gamma), Design of graphs, Pie-Charts, Heat Maps  Note: Cost Per Analysis package	₹6,500	998346	18%
De-Novo Whole Metagenome Sequencing :	CBSEQ110G	Steps involved are Raw Data QC, Assembly, Annotation, Biological functions and top pathways, Custom gene-pathway search, draft assembly of individual bacterial genomes (if possible), Plasmid Search, Design of graphs, Pie-Charts, Heat Maps  Note: Cost based on number of reads.	₹25,000	998346	18%
Alignment based Whole Metagenome Sequencing	CBSEQ110H	Steps involved are Raw Data QC, Ref. Database based Alignment, Annotation, Biological functions and top pathways, Custom gene-pathway search, draft assembly of individual bacterial genomes	₹20,000	998346	18%
Whole Genome Sequencing Analysis :	CBSEQ110I	Steps involved are Raw Data QC, Assembly using minimum 2 Assemblers and selection of the best kmer and n50, Annotation using close reference, Gene Pathway analysis, completion of Draft using tools for scaffold stitching, submission of raw data to NCBI, Design of graphs, Pie-Charts, Heat Maps.	₹35,000	998346	18%
Whole Human Genome Phasing 100X Coverage	CBSEQGP	Long Read Sequencing chemistry Sequencing Platforms: PacBio Sequel <ul style="list-style-type: none"> <li>•Examines the unique haplotype content of two homologous chromosome</li> <li>• One assay to phase over 94% of heterozygous SNPs and InDels</li> </ul>	Price on Request	998346	18%

## Bioinformatics Training

Product/Services	Catalog#	Quantity	List price	HSN Code	GST
Data analysis Training 3 Days	CBNGST001	Any One Technique, Certificate and complete analysis package.	₹12,000	998346	18%
Learner Genomics Data Science Training course Level 2 (100% online) Duration 1 month Eligibility: Level 1; Bash Scripting - II, R Programming - I Statistical Genomics - I	CBNGST001 Class A	ChIP-Seq, Elective: Whole Genome & Whole Exome Analysis.	₹20,000	998346	18%
Practitioner Genomics Data Science Training course Level3 (100% online) Duration 45 days Eligibility: Level 2; Python for Genomics. Statistical Genomics - II Data Science with R - II.	CBNGST001 Class B	Elective: Whole Metagenome, sRNA Seq & GWAS.	₹15,000	998346	18%
Pro Genomics Data Science Training course Level 4 (100% online) Duration 1 month Eligibility: Level 3 Cleared; Software Development for Biologists AI in Healthcare. Machine Learning	CBNGST001 Certificate	Advanced NGS project at client facility	₹25,000	998346	18%
Guru Genomics Data Science Training course Level 5 (100% online) Duration 1 month Eligibility: Level 4 Cleared; Cloud Solution, Architect - Training	CBNGST001G URU	Custom Application Development and Cloud Deployment. Hadoop, Spark & Scala Mongo DB & Node.js.	₹35,000	998346	18%

## Analytical Sample Preparation

Product/Services	Catalog#	Quantity	List price	HSN Code	GST
DNA Extraction from Microbial Sample	CBSEQPrep_01	DNA Extraction from Microbial Plates/Plant/Animal Tissue sample and its QC using Gel Electrophoresis	₹1,500	998346	18%
DNA Extraction from Blood/Soil Sample	CBSEQPrep_02	DNA Extraction from Blood/ Soil sample and its QC using Gel Electrophoresis	₹2,000	998346	18%
RNA Extraction from Microbial/Plant/Animal Tissue Sample	CBSEQPrep_03	RNA Extraction from Microbial Plates/Plant/Animal Tissue sample and its QC using UV/Viz Spectrophotometer (260/280 & 260/230)	₹2500	998346	18%

## Analytical Sample Preparation (contd.)

Product/Services	Catalog#	Quantity	List price	HSN Code	GST
RNA Extraction from Blood/Soil Sample	CBSEQPrep_04	RNA Extraction from Blood/ Soil sample and its QC using UV/Viz Spectrophotometer (260/280 & 260/230)	₹3,000	998346	18%
Protein Extraction and Purification from Microbial Sample	CBSEQPrep_05	Protein Isolation and purification from Plant/ Animal Tissue/ Microbial Media and its QC using PAGE/SDS PAGE	₹5,000	998346	18%
Proteolytic Digestion	CBSEQPrep_06	Protein Digestion using proteolytic enzyme from Plant/ Animal Tissue/ Microbial protein	₹6,000	998346	18%
Analytical Sample Preparation	CBSEQPrep_07	Sample preparation for GCMS/LCMS-MS /Nano LC	₹4,500	998346	18%
Library QC	CBSEQPrep_08	Library QC of NGS Samples	₹3,000	998346	18%
MALDI TOF Analysis of Protein/2D Bands	CBANA001	Protein Band in suitable buffer solution	₹12,500	998346	18%

## PCR/RT-PCR

Product/Services	Catalog#	Quantity	List price	HSN Code	GST
Estimation of copy number of transgene, relative quantification based on housekeeping gene expression data.	CBSEQ66	Samples for Analysis. Per gene-Triplicate reactions to normalize the estimated copy number.	₹25,000	998346	18%
Absolute quantification/ Gene expression profiling/ SNP and allelic discrimination using Real time PCR	CBSEQ67	Samples for Analysis	Price On Request	998346	18%
PCR Purification for samples.	CBSEQ9A	Required PCR products	₹200 Cost Per Sample	998346	18%
Optimization of PCR for gene specific amplification – For SNPs, microsatellite, homologous or novel genes	CBSEQ12	Reference sequence of the gene or specific requirement from client. Cost varies depending upon gene and type of PCR	Price On Request	998346	18%
Adaptor ligation mediated PCR and gene sequencing (Design of anchored adaptors, primers, PCR optimization and gene sequencing)	CBSEQ13	Gene Sequencing using site specific adaptor ligation and further gene amplification to determine 5' and 3' end sequence of gene. Cost varies depending upon type of PCR and gene to be amplified	Price On Request	998346	18%

## Qualitative PCR

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Detection of eubacteria in sample	CBSEQ41	Environmental sample/culture. Cost Per Sample	Price On Request	998346	18%
Detection of archaeobacteria	CBSEQ42	Environmental sample/culture. Cost Per Sample	Price On Request	998346	18%
Detection of Sulphur reducing Bacteria	CBSEQ43	Environmental sample/culture. Cost Per Sample	Price On Request	998346	18%
Detection Nitrogen Fixing Bacteria	CBSEQ44	Environmental sample/culture. Cost Per Sample	Price On Request	998346	18%
Detection of Rubisco gene	CBSEQ45	Environmental sample/culture. Cost Per Sample	Price On Request	998346	18%
Detection residual bacterial host strain DNA in formulations	CBSEQ46	Environmental sample/culture. Cost Per Sample	Price On Request	998346	18%
Detection residual cell culture host strain DNA in formulations	CBSEQ47	Environmental sample/culture. Cost Per Sample	Price On Request	998346	18%
Detection of bacteriophages in sample	CBSEQ48	Culture with plaques. Cost Per Sample	Price On Request	998346	18%

## Quantitative PCR

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Quantification of eubacteria present in sample	CBSEQ49	Environmental sample/culture. Cost Per Sample	Price On Request	998346	18%
Quantification of archaeobacterial present in sample	CBSEQ50	Environmental sample/culture. Cost Per Sample	Price On Request	998346	18%
Quantification of residual bacterial host strain DNA in formulations	CBSEQ51	Environmental sample/culture. Cost Per Sample	Price On Request	998346	18%
Quantification of residual cell culture host strain DNA in formulations	CBSEQ52	Environmental sample/culture. Cost Per Sample	Price On Request	998346	18%

## Gene Synthesis

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Gene synthesis with standard vector i.e pTOP Blunt V2 and pUC57 vector (cloning site), pCR Vector.	CBSEQ81	Gene Sequence to be synthesized. Cost per sample.	Price On Request	998346	18%
Gene synthesis with customized vector (Deliverables: Lyophilized E. coli with cloned plasmid.	CBSEQ82	Vector DNA needs to be given by client (4-5 ug) along with gene sequence and vector map.	Price On Request	998346	18%
CRISPR Gene Editing kits.	CBSEQ82 A	Product from Macrogen / NEB/ IDT / SIGMA / Qiagen.	Price On Request	998346	18%
CRISPR based Gene Editing Enzyme and template gene.	CBSEQ82 B	Product from Macrogen / NEB/ IDT / SIGMA/ Qiagen.	Price On Request	998346	18%

## Oligonucleotide Synthesis

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
SSCP Primer Design	CBSEQ20	Transcript ID, reference sequence. Cost Per Primer Pair	₹6,000	998346	12%
Standard Oligo Scale : 10 nanomol Length : 35 mer Purification: Desalted	CBSEQ20A	Cost Per Base	₹18	998346	12%
Standard Oligo Scale : 25 nanomol Length : 35 mer Purification: Desalted	CBSEQ112A	Cost Per Base	₹25	998346	12%
Scale : 50 nanomol Length : 130 mer	CBSEQ112B	Cost Per Base	₹40	998346	12%
Scale : 200 nanomol Length : 130 mer Purification : MOPC	CBSEQ112C	Cost Per Base	₹130	998346	12%
Scale : 1000 nanomol Length : 130 mer Purification : MOPC	CBSEQ112D	Cost Per Base	₹175	998346	12%
Scale : 50 nanomol, 200 nanomol. 1000 nanomol Purification : PAGE	CBSEQ112E	Cost Per Oligo	₹4072 /₹4072 /₹4058	998346	12%
Scale : 50 nanomol, 200 nanomol. 1000 nanomol Purification : HPLC	CBSEQ112F	Cost Per Oligo	₹4072 /₹4072 /₹4058	998346	12%
Modified Oligos	CBSEQ113A	Oligo sequence with modification and purification requirements. Price include –	Price On Request	998346	12%
Internal Modified and Labelled Oligo	CBSEQ113B	Oligo synthesis, labelling charges and purification charges separately	Price On Request	998346	12%
Universal Primers / Oligo for 16s / 18s and Sequencing Primers	CBSEQ113C	5nmol (20ng) of >95% Pure Primer (Page Purification)	₹1800/₹2800	998346	12%

## Peptide Synthesis

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Peptide synthesis	CBSEQ014	Amino Acid Sequence provided by customer and Scale of synthesis and Quantity	Price On Request	998346	18%

## Primer Walking

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Primer walking single strand- Primer design, synthesis and sequencing, data alignment	CBSEQ14	Plasmid DNA or culture of clone harbouring plasmid	₹8 Cost Per Base	38220090	18%
Primer walking single strand for AT or GC rich sequences- Primer design, synthesis and sequencing, data alignment	CBSEQ14A	Plasmid DNA or culture of clone harbouring plasmid	₹9 Cost Per Base	38220090	18%
Primer walking double strand- Primer design, synthesis and sequencing, data alignment	CBSEQ15	Plasmid DNA or culture of clone harbouring plasmid	₹10 Cost Per Base	38220090	18%
Primer walking double strand for AT or GC rich sequences- Primer design, synthesis and sequencing, data alignment	CBSEQ15A	Plasmid DNA or culture of clone harbouring plasmid	₹12 Cost Per Base	38220090	18%

## Molecular Markers

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Development of ARMS PCR marker - ARMS primer design and validation	CBSEQ62	Required Samples for analysis	₹1,05,500 Cost Per Genotype	38220090	18%
Development of SCAR PCR marker – SCAR primer design and validation	CBSEQ63	Required Samples for analysis	₹1,05,500 Cost Per Marker	38220090	18%

## HPLC

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Qualitative HPLC	CBSEQ102	Deliverables – Chromatogram	₹3,500 Cost Per 30 mins run	38220090	18%
Quantitative HPLC	CBSEQ103	Deliverables - Chromatogram and detailed report	₹7,000 Cost Per 30 mins run with one standard	38220090	18%



## GC-MS

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
GC-MS analysis	CBSEQ97	Sample solubility Expected molecular weight and formula. EI source NIST 2017 Library. Deliverable - GC Chromatogram	₹8,500 Cost Per 30 mins run Per Sample	38220090	18%
GC-MS analysis of plant extract	CBSEQ98	Sample prepared in GC compatible solvent. EI source NIST 2017 Library. Deliverable - GC Chromatogram	₹9,000 Cost Per Hour Per Run	38220090	18%
Headspace GC-MS analysis	CBSEQ99	Expected molecular weight. EI source NIST 2017 Library. Deliverable - GC Chromatogram NIST Library search	₹8,500 Cost Per 30 mins Run Per Sample	38220090	18%
GC-MS Method Development	CBSEQ100	Standards or reference material. EI source NIST 2017 Library. Deliverable - Valid method for quantitative analysis	₹8,500 Cost Per Hour Per Run	38220090	18%
Quantitative GC-MS	CBSEQ101	Standards or reference material. EI source NIST 2017 Library. Deliverable Quantitative analysis report	₹12,000 Cost Per Hour Per Run	38220090	18%

## LC-MS

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Qualitative LC-MS services Small Molecules Analysis (Molecules having mass less than 3200 Da)- Mass determination only using direct injection (No LC)	CBSEQ83	Sample solubility Polarity of molecules Expected molecular weight and formula. ESI/ APCI/ ASAP Ionization source. MS spectra/report in pdf or excel	₹8,000 Cost per sample per polarity.	38220090	18%
Qualitative LC-MS services Small Molecules Analysis (Molecules having mass less than 3200 Da)- MS/MS of two masses using direct injection (No LC)	CBSEQ84	Sample solubility List of m/z or mass for MS/MS. ESI/APCI/ASAP Ionization Source. CID Fragmentation	₹8,500 Cost per sample per polarity.	38220090	18%

## LC-MS (Contd.)

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Qualitative LC-MS services Small Molecules Analysis (Molecules having mass less than 3200 Da)- Mass determination and separation using UPLC	CBSEQ85	Sample solubility Polarity of molecules. Expected molecular weight and formula Client can provide their own method suitable for column. ESI/APCI/ASAP Ionization Source. CID Column. Replicate analysis with additional charges	₹8,000 Cost Per Run Hour Per Polarity	38220090	18%
Qualitative LC-MS services Small Molecules Analysis (Molecules having mass less than 3200 Da)- Mass determination, Fragmentation (MS/MS) and separation using UPLC	CBSEQ86	Sample solubility Polarity of molecules Client can provide their own method suitable for column. ESI/APCI Ionization source Column: Method: Auto MS/MS of all major ions. Replicate analysis with additional charges	₹8,000 Cost Per Run Hour Per Polarity	38220090	18%
Qualitative LC-MS services Metabolites analysis (Molecules having mass less than 3200 Da) - Metabolite screening with exact mass (only MS)	CBSEQ87	Ready to inject sample extracted in solvent compatible with MS For powdered samples, solubility is required. ESI/APCI Ionization source with UPLC. Matching with METLIN database / Lipidmap / Database provided by client.	₹8,000 Cost Per Run Hour Per Sample	38220090	18%
Qualitative LC-MS services Metabolites analysis (Molecules having mass less than 3200 Da) Untargeted Metabolomics (only MS)	CBSEQ88	Ready to inject sample extracted in solvent compatible with MS For powdered samples, solubility is required. ESI/APCI Ionization source with UPLC. Matching with METLIN database / Lipidmap / Database.	₹18,000 Cost Per Run Hour Per Sample	38220090	18%
Proteomics: (Biomolecules (protein/peptide) having mass more than 3200 Da) - Peptide mass fingerprinting, Identification with Spectrum Mill software	CBSEQ89	Proteolytic digest sample in buffer/solvent compatible with MS Or lyophilized sample. ESI/Nano ESI Ionization source with UPLC/ Nano flow LC	₹12,000 Cost Per Run Hour Per Sample	38220090	18%
Proteomics: (Biomolecules (protein/peptide) having mass more than 3200 Da) Peptide Sequencing using data dependent LCMS/MS	CBSEQ90	Proteolytic digest sample in buffer/solvent compatible with MS Or lyophilized sample. ESI/Nano ESI Ionization source with UPLC/ Nano flow LC	₹16,000 Cost Per Run Hour Per Sample	38220090	18%
Proteomics: (Biomolecules (protein/peptide) having mass more than 3200 Da) - Intact protein mass determination	CBSEQ91	Proteolytic digest sample in buffer/solvent compatible with MS Or lyophilized sample. ESI/Nano ESI Ionization source with UPLC/ Nano flow LC	₹12,500 Cost Per Run Hour Per Sample	38220090	18%

## LC-MS (Contd.)

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Quantitative LC-MS services - Small Molecules quantitative analysis (Molecules having mass less than 3200 Da – Method Development	CBSEQ92	Standards or reference material Sample solubility Polarity of molecules Expected molecular weight and formula. ESI/Nano ESI Ionization source with UPLC/ Nano flow LC. ESI/APCI/ASAP Ionization Source.	₹25,000 Cost Per Run Hour Per Sample	38220090	18%
Quantitative LC-MS for small molecules using UPLC	CBSEQ93	Standards or reference material Sample solubility Polarity of molecules Expected molecular weight and formula. ESI/APCI Ionization source.	₹18,500 Cost Per Run Hour Per Sample	38220090	18%
Large molecules quantitative analysis (protein/peptide) having mass more than 3200 Da) - Method development	CBSEQ94	Standards or reference material Sample solubility Polarity of molecules Expected molecular weight and formula. ESI/Nano flow Ionization source.	₹18,500 Cost Per Run Hour Per Sample	38220090	18%
Large molecules quantitative analysis (protein/peptide) having mass more than 3200 Da)- Quantitative LC-MS for large molecules using UPLC	CBSEQ95	Standards or reference material Sample solubility Polarity of molecules Expected molecular weight and formula. ESI source.	₹18,500 Cost Per Run Hour Per Sample	38220090	18%
Large molecules quantitative analysis (protein/peptide) having mass more than 3200 Da)- Quantitative LC-MS for large molecules using Nano Flow LC	CBSEQ96	Standards or reference material Sample solubility Polarity of molecules Expected molecular weight and formula. Nano Nano ESI source.	₹25,000 Cost Per Run Hour Per Sample	38220090	18%
Protein Expression Profiling using Label-Free Quantification with Bioinformatics Analysis including Heat Maps, Statistical Charts and Graphs	CBSEQ96A	Standards or reference material Sample solubility Polarity of molecules Expected molecular weight and formula. Nano Nano ESI source.	₹45,000 Cost Per Run Hour Per Sample	38220090	18%
Post Translational Modification Analysis	CBSEQ96B	protein precipitation, protein estimation, in-sol/in-gel disation with enzymes, peptide sequencing on UPLC-MS, QC sample, PTM report	₹62,000	38220090	18%
Protein N-Glycan Analysis	CBSEQ96C	Enzymatic Disation, Labelling, Glycan Profiling, Relative Quantification, QC sample, Data Report	₹62,000	38220090	18%
Disulfide Linkage Analysis	CBSEQ96D	protein precipitation, protein estimation, in-sol/in-gel digestion with enzymes, peptide sequencing on UPLC-MS, QC sample, Data report.	₹62,000	38220090	18%

## Antibodies

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Primary Antibody - Polyclonal	CBSEQ131	50ug/100ug	₹42,000/ ₹65,000	38220090	12%
Primary Antibody - Monoclonal	CBSEQ132	50ug/100ug	₹45,000/ ₹60,000	38220090	12%

## ELISA

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Universal ELISA	CBSEQ115	As per requirement	₹45,000	38220090	12%
Human ELISA	CBSEQ116	As per requirement	₹45,000	38220090	12%
Mouse ELISA	CBSEQ117	As per requirement	₹45,000	38220090	12%
Rat ELISA	CBSEQ118	As per requirement	₹45,000	38220090	12%
Plant ELISA	CBSEQ119	As per requirement	₹45,000	38220090	12%
Avian ELISA	CBSEQ120	As per requirement	₹45,000	38220090	12%
Bovine ELISA	CBSEQ121	As per requirement	₹45,000	38220090	12%
Cattle ELISA	CBSEQ122	As per requirement	₹45,000	38220090	12%
Cannine ELISA	CBSEQ123	As per requirement	₹45,000	38220090	12%
Chicken ELISA	CBSEQ124	As per requirement	₹45,000	38220090	12%
Guinea ELISA	CBSEQ125	As per requirement	₹45,000	38220090	12%
Rabbit ELISA	CBSEQ126	As per requirement	₹45,000	38220090	12%
Simian ELISA	CBSEQ127	As per requirement	₹45,000	38220090	12%
Zebrafish ELISA	CBSEQ128	As per requirement	₹45,000	38220090	12%
Hamster ELISA	CBSEQ129	As per requirement	₹45,000	38220090	12%

## Molecular Biology Kits

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
DNA/ RNA Extraction Kit	CBMOLK01	Product from Qiagen, Promega, Thermo, NEB, Genei Labs,	Price On Request	38220090	12%
PCR Master Mix	CBMOLK02	Genei, Fermenta, Takara, Reprocell, Qiagen, Promega	Price On Request	38220090	12%
IVLTM Kit for Viral Sample collection kit	CBMOLK03	GeneOmbio, Tulip, Sigma	Price On Request	38220090	12%
Gel Purification Kits	CBMOL04	Qiagen , Takara, Genei, Promega	Price On Request	38220090	12%
DNA & Protein Ladder	CBMOL05	Qiagen, Promega, Takara, Fermenta, Sigma	Price On Request	38220090	12%

## Cell Biology

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Cytotoxicity Testing by MTT Assay	CBSEQ75	(3 Concentrations in Triplicates ) 3 Experiments	₹12,500	38220090	18%
Mitochondrial depolarization test by flow cytometry	CBSEQ76	by flow cytometry, Untreated + Test 2 Nos X3 Experiments	₹32,000	38220090	18%
Live – Dead / viability studies on bacteria	CBSEQ77	Necessary data and strain. Cost per sample	Price On Request	38220090	18%
Reactive Oxygen Species (ROS)	CBSEQ78	(H2DCFDA) by flow cytometry, Untreated + ROS induced + Test, 3 nos x 3 experiments	₹40,000	38220090	18%
Cell Cycle Analysis	CBSEQ79	(PI staining) by flow cytometry, Untreated + Test, 2 nos x 3 experiments	₹30,000	38220090	18%
Annexin V Apoptosis Assay	CBSEQ80	by flow cytometry, Untreated + Test, 2 nos x 3 experiments	₹35,750	38220090	18%
Internalization/ uptake of NPs	CBSC81	in cell line & Quantitative estimation by ICPMS	₹9,000	38220090	18%

## Plant Molecular Biology

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Plant ploidy level determination using Flow Cytometry	CBSEQ73	Control sample (preferably leaves) with known ploidy level and samples for analysis	₹6,400 Cost Per Sample	38220090	18%
Confirmation of Transgene in Cloning	CBSEQ74	Sample with transgene cloned	Price On Request	38220090	18%

## Microbial Fermentation

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Strain improvement for production of particular product / Pathway determination	CBSEQ70	Necessary Data and strain for fermentation	Price On Request	38220090	18%
Media optimization for enhancing product formation	CBSEQ71	Necessary Data and strain for fermentation	Price On Request	38220090	18%
Scale up: Lab Scale to pilot scale fermentation - Pilot scale to plant scale	CBSEQ72	Necessary Data and strain for fermentation	Price On Request	38220090	18%

## Agriculture & Gardening

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Potting Mix (Gardening Mix)	CBGE001	Packed in 50kg Bag	₹1800 Cost Per Bag	23099090	5%
Round Thermoform Plantation Pot	CBGE002	Available in different range including HDPE to Fiber (Pack of 12)	₹800 Cost Per Box	23099090	5%
Gardening Stand	CBGE003	1X1 Meter Size Plastic made	₹1200	23099090	5%
Gardening Tools Kit	CBGE004	Including 6 Equipment and one set of Gloves	₹1400	23099090	5%

## Animal Feed & Supplements

Product/Services	Catalog#	Specifications	List price	HSN Code	GST
Animal Feed for Cattles - Pellet	CBAF001	50 KG Packing in Pellet form	₹1200 Cost Per Bag	23099090	5%
Animal Feed for Cattles - Liquid	CBAF002	5 litre Packing	₹900 Cost Per Pack	23099090	5%
feed for Fish - Pellet	CBAF003	50KG Packing in pellet form	₹1800 Cost Per Bag	23099090	5%
Feed for Fish - Liquid	CBAF004	5 litre packing	₹1200 Cost Per Pack	23099090	5%
Feed for Pig - Pellet	CBAF005	50 kg Packing in pellet form	₹1800 Cost Per Pack	23099090	5%
Feed for Pig - Liquid	CBAF007	5 liter Packing	₹1500 Cost Per Pack	23099090	5%
Feed for Poultry - Pellet	CBAF008	50 kg Packing in Pellet form	₹1800 Cost Per Bag	23099090	5%
Feed for Poultry - Liquid	CBAF009	5 litre Packing	₹1500 Cost Per Pack	23099090	5%

## Biofertilizer & Soil

Product	Catalog#	Specifications	List price	HSN Code	GST
Agro-Fast 50Kg Packing	CBSNB001	Organic Soil Input - NPK Cum Urea Mix. Minimum Quantity 20 Ton with extended shipping cost.	₹1800 Per Bag	23099090	5%
Vermicompost 50Kg Pack	CBSNB002	Organic Fertilizer cum Vermicompost. Minimum Quantity 20 Ton with extended shipping cost.	₹1200 Per Bag	23099090	5%
Coco Peat	CNSNB003	Low EC Coco Peat. Minimum Quantity 20 Ton with extended shipping cost.	₹50 Per Kg	23099090	5%
Azotobacter Consortium Mix cum whole culture Extract	CBSNO001	500 ml Liquid Packing for Horticulture/ Garden Application	₹300 Per Bottle	23099090	5%
Azospirillum Consortium Mix cum whole culture Extract	CBSNO002	500 ml Liquid Packing for Horticulture/Garden Application	₹300 Per Bottle	23099090	5%
PSB Consortium Mix cum whole culture extract	CBSNO003	500 ml Liquid Packing for Horticulture/Garden/ Greenhouse Application	₹300 Per Bottle	23099090	5%
Rhizobium Consortium Mix cum whole culture extract	CBSNO004	500 ml Liquid Packing for Horticulture/Garden/ Greenhouse Application	₹300 Per Bottle	23099090	5%
KMB Consortium Mix cum whole culture extract	CBSNO005	500 ml Liquid Packing for Horticulture/Garden/ Greenhouse Application	₹300 Per Bottle	23099090	5%
ZSB Consortium Mix cum whole culture extract	CBSNO006	500 ml Liquid Packing for Horticulture/Garden/ Greenhouse Application	₹300 Per Bottle	23099090	5%
Tricoderma Consortium Mix cum whole culture	CBSNO007	500 ml Liquid Packing for Horticulture/ Garden/ Greenhouse Application	₹300 Per Bottle	23099090	5%
Metarhizium Sp. Mix cum whole culture - Pest Repellent	CBSNO008	500 ml Liquid Packing for Horticulture/Garden/ Greenhouse Application	₹350 Per Bottle	23099090	5%
Beuveria bassiana Sp. Mix cum whole culture - Insect Repellent	CBNO009	500 ml Liquid Packing for Horticulture/Garden/ Greenhouse Application	₹350 Per Bottle	23099090	5%
Run-Away: Animal Repellent Herbal Formulation	CBNO010	500 ml Liquid Packing for Horticulture/Garden/ Greenhouse Application	₹400 Per Bottle	23099090	5%

DIPP and Start-up India (Govt. of India) Certified Company.  
MSME, FSSAI and Udhog Adhar Recognized Lab in  
Uttarakhand.

CIN – U01100UR2018PTC009185

GSTIN – 05AAHCC8450E1ZT

Email – [centylebiotech@gmail.com](mailto:centylebiotech@gmail.com)

Mob. +91 7857914077

Ac Name – CENTYLE BIOTECH PRIVATE LIMITED

Bank Name – HDFC Bank Ltd.

A/C No – 50200039299939

IFSC – HDFC0000283

Branch – Rudrapur Nainital Road

## OUR LABS ARE LOCATED AT

### CORPORATE OFFICE

Centyle Biotech Pvt. Ltd.,  
ANDC inStart Foundation, Street no. 1, Govind Puri  
Kalkaji, New Delhi - 110019

### REGISTERED OFFICE

Ward No 2, Ray Colony,  
Transit Camp, Rudrapur,  
Uttarakhand 263153

### BANGALORE OFFICE

13th Main Rd, Sahakar  
Nagar, Byatarayanapura,  
Bengaluru, Karnataka 560092