	Product / Service	# Genes	Coverage	Time	Information
Exome & Genome Testing	CentoXome Solo	~20,000	≥98% ≥20x	30 days	NGS + CNV + mtDNA + medical report for index and one/two family member(s), raw data availble for download w/o charge for a period of 30-days via FileCloud.
	CentoXome Duo	~20,000	≥98% ≥20x	30 days	
	CentoXome Trio	~20,000	≥98% ≥20x	30 days	
	CentoXome PLUS	~20,000	≥98% ≥20x	30 days	Additional family member is analyzed and reported together with CentoXome Trio.
	CentoGenome Solo	≥20,000	≥97% ≥10x	20 days	NGS + CNV + mtDNA + medical report for index and one/two family member(s), raw data availble for download w/o charge for a period of 30-days via FileCloud.
	CentoGenome Duo	≥20,000	≥97% ≥10x	20 days	
	CentoGenome Trio	≥20,000	≥97% ≥10x	20 days	
	CentoGenome PLUS	≥20,000	≥97% ≥10x	20 days	Additional family member is analyzed and reported together with CentoGenome Trio.
	CentoXome **Variants** Solo	~20,000	≥98% ≥20x	20 days	NGS, raw data as per FASTQ, BAM, VCF files along with filtered and annotated variant file in XLS, for download via FileCloud.
	CentoXome **Variants** Duo	~20,000	≥98% ≥20x	20 days	
	CentoXome **Variants** Trio	~20,000	≥98% ≥20x	20 days	
	CentoXome **Variants** PLUS	~20,000	≥98% ≥20x	20 days	
	CentoGenome **Variants** Solo	≥20,000	≥97% ≥10x	20 days	NGS, raw data as per FASTQ, BAM, VCF files along with filtered and annotated variant file in XLS, for download via FileCloud.
	CentoGenome **Variants** Duo	≥20,000	≥97% ≥10x	20 days	
	CentoGenome **Variants** Trio	≥20,000	≥97% ≥10x	20 days	
	CentoGenome **Variants** PLUS	≥20,000	≥97% ≥10x	20 days	
Multiomics Solutions	CentoNCL **MOx**	2	-	15 days	**Multiomics**: complete enzyme panel analysis for related diseases (see CentoPortal for disease detail) + automatic reflex to NGS genetic testing if an enzyme deficiency is identified.
	CentoMPS **MOx**	8	-	15 days	
	CentoSphingo **MOx**	12	-	15 days	
	CentoLSD **MOx**	21	-	15 days	
	CentoMetabolic **MOx**	206	>99,5% >20x	15 days	**Multiomics**: NGS + CNV + Enzyme + Biomarker
	CentoXome **MOx** Solo	~20,000	≥98% ≥20x	30 days	**Multiomics**: NGS + CNV + mtDNA + Enzyme + Biomarker Exome analysis (WES) with medical report, followed by available biomarker and enzyme confirmatory testing as per automated reflex step.
	CentoXome **MOx** Duo	~20,000	≥98% ≥20x	30 days	
	CentoXome **MOx** Trio	~20,000	≥98% ≥20x	30 days	
	CentoXome **MOx** PLUS	~20,000	≥98% ≥20x	30 days	
	CentoGenome **MOx** Solo	≥20,000	≥97% ≥10x	20 days	**Multiomics**: NGS + CNV + mtDNA + Enzyme + Biomarker Genome analysis (WGS) with medical report, followed by available biomarker and enzyme confirmatory testing as per automated reflex step.
	CentoGenome **MOx** Duo	≥20,000	≥97% ≥10x	20 days	
	CentoGenome **MOx** Trio	≥20,000	≥97% ≥10x	20 days	
	CentoGenome **MOx** PLUS	≥20,000	≥97% ≥10x	20 days	
CNV Analysis	CentoLCV	≥20,000	≥97% ≥2x	15 days	NGS + medical report for structural variants (large CNVs) through sWGS.
	CentoArray	Genome-wide	-	15 days	Clinical Microarray + medical report for structural variants (large CNVs) - CentoArray; through high resolution 1,1kB within core 4.800 cytogenetically genes + <10kB on whole genome scale + loss of heterozygosity detection and mosiaism ≥20%. CentoArrayCyto; through 750k or 2.6m HD.
	CentoArrayCyto 750K	Genome-wide	-	15 days	
	CentoArrayCyto HD	Genome-wide	-	15 days	
Panel Testing (Oncology)	BRCA1, BRCA2	2	≥99,5% ≥20x	15 days	NGS
	BRCA1, BRCA2 **Plus**	2	≥99,5% ≥20x	15 days	NGS + CNV
	BRCA1, BRCA2 **Combi**	2	≥99,5% ≥20x	15 days	NGS + MLPA
	CentoBreast	30	≥99,5% ≥20x	15 days	NGS + CNV
	CentoColon	33	≥99,5% ≥20x	15 days	NGS + CNV
	CentoCancer	70	≥99,5% ≥20x	15 days	NGS + CNV
	CentoCancer Comprehensive	110	>99,0% ≥20x	15 days	NGS + CNV
	BRCA1, BRCA2 (somatic)	2	Variable	10 days	NGS in tumor sample
	Solid tumor panel (somatic)	149	≥97% ≥200x	10 days	Somatic analysis of solid tumors
	Myeloid tumor panel (somatic)	22	≥97%≥200x	10 days	Somatic analysis of myeloid tumors
Panel Testing (Inherited Diseases)	Abnormal mineralization panel	94	≥99,0% ≥20x	25 days	NGS + CNV
	Amyotrophic lateral sclerosis (ALS) / Dementia panel	105	≥99,0% ≥20x	25 days	NGS + CNV + Repeat Expansion analysis + mtDNA
	Ataxia / Spastic paraplegia comprehensive panel	492	≥99,0% ≥20x	25 days	NGS + CNV + Repeat Expansion analysis + mtDNA
	Ataxia / Spastic paraplegia panel	481	≥99,0% ≥20x	25 days	NGS + CNV + mtDNA
	Ataxia repeat expansion panel	13	100%	25 days	Repeat expansion analysis
	Atypical hemolytic uremic syndrome (aHUS) panel	25	≥99,0% ≥20x	25 days	NGS + CNV + MLPA (5)
	Blood coagulation panel	112	≥99,0% ≥20x	25 days	NGS + CNV + F8 analysis
	Bone marrow failure / Anemia panel	211	≥99,0% ≥20x	25 days	NGS + CNV
	CentoCardio	323	≥99,0% ≥20x	25 days	NGS + CNV + mtDNA
	CentoDx	~6500	≥98,0% ≥20x	25 days	NGS + CNV
	CentoDysmorph	770	≥99,0% ≥20x	25 days	NGS + CNV + mtDNA
	CentoHear	196	>99,0% >20x	25 days	NGS + CNV
	CentoICU	855	≥99,0% ≥20x	15 days	NGS
	CentoIEM	744	≥99,0% ≥20x	25 days	NGS + CNV
	CentoImmuno	326	≥99,0% ≥20x	25 days	NGS + CNV
	CentoMito Comprehensive	450	≥99,0% ≥20x	25 days	NGS + CNV nuclear mitochondrial genes + mtDNA
	CentoMito Genome	37	≥97% ≥200x	25 days	NGS + large deletions in mitochondrial encoded genes
	CentoNephro	495	≥99,0% ≥20x	25 days	NGS + CNV
	CentoNephro Plus	496	≥99,0% ≥20x	25 days	NGS + CNV + PKD1 analysis
	CentoNeuro	>1800	≥99,0% ≥20x	25 days	NGS + CNV
	CentoSkin	152	≥99,0% ≥20x	25 days	NGS + CNV
	CentoVision	447	≥99,0% ≥20x	25 days	NGS + CNV + mtDNA
	Congenital adrenal hyperplasia (CAH) panel	12	≥99,0% ≥20x	25 days	NGS + CNV + CYP21A2 analysis
	Connective tissue and related disorder panel	76	≥99,0% ≥20x	25 days	NGS + CNV
	Diabetes and obesity panel	265	≥99,0% ≥20x	25 days	NGS + CNV + MLPA
	Epilepsy panel	784	≥99,0% ≥20x	25 days	NGS + CNV + repeat expansion analysis + mtDNA
	Intellectual disability panel	817	≥99,0% ≥20x	25 days	NGS + CNV + FMR1 analysis + mtDNA
	Neuromuscular panel	354	≥99,0% ≥20x	25 days	NGS + CNV + repeat expansion analysis + mtDNA
	Pancreatitis panel	29	≥99,0% ≥20x	25 days	NGS + CNV
	Parkinson disease panel	115	≥99,0% ≥20x	25 days	NGS + CNV + mtDNA
	Pulmonary panel	100	≥99,0% ≥20x	25 days	NGS + CNV + repeat expansion analysis
& Prenatal Testing	CentoNIPT Singleton CentoNIPT Twin	-	-	5 days	Trisomy 21, 18 and 13, Sex chromosomal aneuploidy and fetal gender: XX/ XY (Fetal gender), X0 (Turner syndrome), XXX (Triple X syndrome), XXY (Klinefelter syndrome), XYY (Jacobs syndrome).
	CentoScreen Solo	330	≥99,0% ≥20x	25 days	NGS + CNV + CYP21A2, FMR1 and SMN1 analysis. Duo full analysis for both partners. Paired Pack with risk gene analysis for partner only.
	CentoScreen Paired Pack	330	≥99,0% ≥20x	30 days	
	CentoScreen Duo	330	≥99,0% ≥20x	25 days	
	Infertility panel	270	≥99,0% ≥20x	25 days	NGS + CNV + repeat expansion analysis + MLPA for aneuplody, AZF region + mtDNA
	CentoArray **Prenatal**	Genome-wide	-	15 days	Prenatal package includes sample prioritization and expediting at each stage of the process, and cell culture. Maternal Cell Contamination (MCC) optional as per separate order. **Price per test!**
	CentoArrayCyto **Prenatal** 750K	Genome-wide	-	15 days	

Reproductive Health	CentoArrayCyto **Prenatal** HD	Genome-wide	-	15 days	cell culture. Maternal Cell Contamination (MCC) optional as per separate order. **Price per test!**
	CentoXome **Prenatal** Solo	~20,000	≥98% ≥20x	15 days	Prenatal package includes reduced TAT through prioritization and expediting at each stage of the process, cell culture and Maternal Cell Contamination (MCC) if maternal sample is available. **Price per test!**
	CentoXome **Prenatal** Duo	~20,000	≥98% ≥20x	15 days	
	CentoXome **Prenatal** Trio	~20,000	≥98% ≥20x	15 days	
	CentoXome **Prenatal** PLUS	~20,000	≥98% ≥20x	15 days	
	CentoGenome **Prenatal** Solo	≥20,000	≥97% ≥10x	15 days	Prenatal package includes reduced TAT through prioritization and expediting at each stage of the process, cell culture and Maternal Cell Contamination (MCC) if maternal sample is available. **Price per test!**
	CentoGenome **Prenatal** Duo	≥20,000	≥97% ≥10x	15 days	
	CentoGenome **Prenatal** Trio	≥20,000	≥97% ≥10x	15 days	
	CentoGenome **Prenatal** PLUS	≥20,000	≥97% ≥10x	15 days	
Single Gene Analysis	Selection of Sanger (single gene analysis)	1	100%	15 days	Sanger sequencing - category **S**-genes / 1-10 Exons Sanger sequencing - category **M**-genes / 11-25 Exons Sanger sequencing - category **L**-genes / 25+ Exons
	Selection of MLPA (single gene analysis)	1	100%	15 days	MLPA deletion/duplication testing / 1-MLPA Kit ATM, BRCA1/2, DMD, DOCK8, FANCA, FBN1,NF1, PKD1, USH2A / 2-MLPA kit
	Selection of NGS (single gene analysis)	1	100%	25 days	NGS + CNV
	Carrier testing Sanger (point mutation)	1	-	15 days	Known familial targeted point mutation testing
	Carrier testing qPCR (del/dup)	1	-	15 days	Known familial targeted deletion/duplication testing
	Selection of Repeat Expansion and	1	-	15 days	FMR1
	Fragment Length Analysis	1	-	15 days	Other avaiable Repeat Expansions
	SMN1 Copy Number screening	1	-	5 days	Screening by detection of homozygous exon 7 deletions with a semi-quantitative CE-IVD assay
Biochemical Testing	Selection of Biomarker analysis	1	-	7 days	Biomarker analysis for available diseases/genes
	Selection of Enzyme activity testing	1	-	7 days	Enzyme activity testing for available diseases/genes
	CentoNCL	2	-	10 days	Complete enzyme panel analysis for related diseases (see CentoPortal for disease detail).
	CentoMPS	8	-	10 days	
	CentoSphingo	12	-	10 days	
	CentoLSD	21	-	10 days	
Analysis & Interpretation Services	CentoCloud medical evaluation - Hereditary Oncology panel	≥70	-	10 days	Digital data analysis and interpretation platform for FASTQ files from Illumina sequencing technology. Bioinformatic analysis with medical reporting of diagnostic findings (SNVs, InDels, CNVs). BAM, VCF and filtered and annotated variant file (XLS) for download. For WES/WGS research, secondary and carriership findings can be provided. **Price per dataset/report!**
	CentoCloud medical evaluation - Rare Disease panel	≥2.500	-	10 days	
	CentoCloud medical evaluation - Exome	variable	-	10 days	
	CentoCloud medical evaluation - Genome	≥20.000	-	10 days	