	Product / Service	# Genes	Coverage	Time	Information
	CentoXome Solo	~20,000	≥98% ≥20x	30 days	
	CentoXome Duo	~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 Trio	~20,000	≥98% ≥20x	30 days	
bo	CentoXome PLUS	~20,000	≥98% ≥20x	30 days	$\label{prop:continuous} Additional family member is analyzed and reported together with {\tt CentoXomeTrio}.$
Exome & Genome Testing	CentoGenome Solo	≥20,000	≥97% ≥10x	20 days	NGS + CNV + mtDNA + medical report for index and one/two family member(s), raw data
ē	CentoGenome Duo	≥20,000	≥97% ≥10x	20 days	availble for download w/o charge for a period of 30-days via FileCloud.
Ě	CentoGenome Trio	≥20,000	≥97% ≥10x	20 days	
Gen	CentoGenome PLUS CentoXome Variants Solo	≥20,000 ~20,000	≥97% ≥10x ≥98% ≥20x	20 days 20 days	Additional family member is analyzed and reported together with CentoGenome Trio.
<u>مح</u>	Centoxome Variants Solo CentoXome Variants Duo	~20,000	≥98% ≥20x ≥98% ≥20x	20 days 20 days	NGS, raw data as per FASTQ, BAM, VCF files along with filtered and annotated variant file in XLS,
E 0	CentoXome Variants Trio	~20,000	≥98% ≥20x	20 days	for download via FileCloud.
iii	CentoXome Variants PLUS	~20,000	≥98% ≥20x	20 days	
	CentoGenome Variants Solo CentoGenome Variants Duo	≥20,000 ≥20,000	≥97% ≥10x ≥97% ≥10x	20 days 20 days	NGS, raw data as per FASTQ, BAM, VCF files along with filtered and annotated variant file in XLS,
	CentoGenome Variants Trio	≥20,000	≥97% ≥10x ≥97% ≥10x	20 days	for download via FileCloud.
	CentoGenome Variants PLUS	≥20,000	≥97% ≥10x	20 days	
	CentoNCL MOx	2	-	15 days	
	CentoMPS MOx CentoSphingo MOx	8 12	-	15 days 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.
દ	CentoLSD MOx	21	-	15 days	detaily automatic renex to 1105 genetic testing if an enzyme dendertcy is identified.
Multiomics Solutions	CentoMetabolic MOx	206	>99,5% >20x	15 days	Multiomics: NGS + CNV + Enzyme + Biomarker
Š	CentoXome MOx Solo	~20,000	≥98% ≥20x	30 days	Multiomics: NGS + CNV + mtDNA + Enzyme + Biomarker
nics	CentoXome MOx Duo CentoXome MOx Trio	~20,000 ~20,000	≥98% ≥20x ≥98% ≥20x	30 days 30 days	Exome analysis (WES) with medical report, followed by available biomarker and enzyme
Ę	Centoxome MOx PLUS	~20,000	≥98% ≥20x	30 days	confirmatory testing as per automated reflex step.
ž	CentoGenome MOx Solo	≥20,000	≥97% ≥10x	20 days	Multiomics: NGS + CNV + mtDNA + Enzyme + Biomarker
	CentoGenome MOx Duo	≥20,000	≥97% ≥10x	20 days	Genome analysis (WGS) with medical report, followed by available biomarker and enzyme
	CentoGenome MOx Trio CentoGenome MOx PLUS	≥20,000 ≥20,000	≥97% ≥10x ≥97% ≥10x	20 days 20 days	confirmatory testing as per automated reflex step.
	CentoLCV	≥20,000	≥97% ≥2x	15 days	NGS + medical report for structural variants (large CNVs) through sWGS.
> ysis	CentoArray	Genome-wide	-	15 days	Clinical Microarray + medical report for structural variants (large CNVs) - CentoArray; through
CNV Analysi	CentoArrayCyto 750K	Genome-wide	-	15 days	high resolution 1,1kB within core 4.800 cytogenetically genes + <10kB on whole genome scale + $$
	CentoArrayCyto HD	Genome-wide	-	15 days	loss of heterozygosity detection and mosiaism ≥20%. CentoArrayCyto; through 750k or 2.6m HD.
÷	BRCA1, BRCA2	2	≥99,5% ≥20x ≥99,5% ≥20x	15 days 15 days	NGS NGS + CNV
ygolo	BRCA1, BRCA2 Plus BRCA1, BRCA2 Combi	2	≥99,5% ≥20x	15 days	NGS + MLPA
Onco	CentoBreast	30	≥99,5% ≥20x	15 days	NGS + CNV
<u>8</u>	CentoColon	33	≥99,5% ≥20x	15 days	NGS + CNV
esti	CentoCancer CentoCancer Comprehensive	70 110	≥99,5% ≥20x >99,0% ≥20x	15 days 15 days	NGS + CNV NGS + CNV
Ė		2	Variable	10 days	NGS in tumor sample
2	BRCA1, BRCA2 (somatic)	2	Variable		14G5 III tullioi sallipic
Panel Testing (Oncology)	Solid tumor panel (somatic)	149	≥97% ≥200x	10 days	Somatic analysis of solid tumors
Pane	Solid tumor panel (somatic) Myeloid tumor panel (somatic)	149 22	≥97% ≥200x ≥97%≥200x	10 days 10 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors
Pane	Solid tumor panel (somatic)	149	≥97% ≥200x	10 days	Somatic analysis of solid tumors
Pane	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel	149 22 94 105 492	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days 25 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA
Pane	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel	149 22 94 105 492 481	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days 25 days 25 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + MTDNA
Pane	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel	149 22 94 105 492 481 13	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days 25 days 25 days 25 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA
Pane	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel	149 22 94 105 492 481	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days 25 days 25 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis
Pane	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel	149 22 94 105 492 481 13 25 112 211	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x	10 days 10 days 25 days 25 days 25 days 25 days 25 days 25 days 25 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MtDNA Repeat expansion analysis NGS + CNV + MtPA (5) NGS + CNV + F8 analysis NGS + CNV
Pane	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio	149 22 94 105 492 481 13 25 112 211 323	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x 100% ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MtPA (5) NGS + CNV + MLPA (5) NGS + CNV + F8 analysis NGS + CNV NGS + CNV NGS + CNV
Pane	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel	149 22 94 105 492 481 13 25 112 211	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x	10 days 10 days 25 days 25 days 25 days 25 days 25 days 25 days 25 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MtDNA Repeat expansion analysis NGS + CNV + MtPA (5) NGS + CNV + F8 analysis NGS + CNV
cases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDy CentoHear	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x 100% ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MLPA (5) NGS + CNV + MLPA (5) NGS + CNV + FB analysis NGS + CNV + MTDNA
cases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDysmorph CentoHear CentoICU	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days 26 day	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MLPA (5) NGS + CNV + MLPA (5) NGS + CNV + MLPA (5) NGS + CNV + mtDNA NGS + CNV NGS + CNV + mtDNA NGS + CNV
cases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDysmorph CentoHear CentoICU CentoIEM	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x 100% ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MtLPA (5) NGS + CNV + MtLPA (5) NGS + CNV + RE analysis NGS + CNV + MTDNA NGS + CNV NGS + CNV + mtDNA
cases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDx CentoDysmorph CentoHear CentoICU CentoIEM CentoIIEM CentoMitto Comprehensive	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x 100% ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days 26 day	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA Repeat expansion analysis NGS + CNV + MtDNA Repeat expansion analysis NGS + CNV + MtPA (5) NGS + CNV + MtPA (5) NGS + CNV + MtPA NGS + CNV NGS + CNV + mtDNA NGS + CNV
cases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia / spastic paraplegia panel Ataxia repeat expansion panel Ataypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDx CentoDysmorph CentoHear CentoIcU CentoIEM Centolimmuno CentoMito Comprehensive CentoMito Comprehensive	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744 326 450 37	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days 26 day	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MtPA (5) NGS + CNV + MtPA (5) NGS + CNV + MtPA NGS + CNV + mtDNA NGS + CNV NGS + CNV + mtDNA NGS + CNV NGS + CNV nuclear mitochondrial genes + mtDNA NGS + large deletions in mitochondrial encoded genes
cases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDyx CentoDysmorph CentoHear CentoICU CentoIEM CentoImmuno CentoMitto Genome CentoMitto Genome CentoNephro	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744 326 450 37	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days 26 day	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MtDPA (5) NGS + CNV + F8 analysis NGS + CNV + F8 analysis NGS + CNV + mtDNA
cases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia / spastic paraplegia panel Ataxia repeat expansion panel Ataypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDx CentoDysmorph CentoHear CentoIcU CentoIEM Centolimmuno CentoMito Comprehensive CentoMito Comprehensive	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744 326 450 37	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days 26 day	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MtPA (5) NGS + CNV + MtPA (5) NGS + CNV + MtPA NGS + CNV + mtDNA NGS + CNV NGS + CNV + mtDNA NGS + CNV NGS + CNV nuclear mitochondrial genes + mtDNA NGS + large deletions in mitochondrial encoded genes
Panel Testing (Inherited Diseases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCxrdio CentoDx CentoDx CentoDysmorph CentoHear CentoHear CentoIEM Centolimuno CentoMito Comprehensive CentoMito Genome CentoNephro CentoNephro CentoNephro CentoNephro CentoNeuro CentoSkin	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744 326 450 37 495 496 >1800 152	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x 100% ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days 26 day	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MtPA (5) NGS + CNV + MtPA (5) NGS + CNV + mtDNA NGS + CNV + mtDNA NGS + CNV + mtDNA NGS + CNV
cases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDyx CentoDysmorph CentoHear CentoICU CentoIEM CentoIEM CentoMito Comprehensive CentoMito Genome CentoMito Genome CentoNephro CentoNephro CentoNeuro CentoNeuro CentoNeuro CentoNeuro CentoNeuro CentoNeuro CentoNeuro CentoNeison	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744 326 450 37 495 496 >1800	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x	10 days 10 days 25 days 26 day	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MtDPA (5) NGS + CNV + F8 analysis NGS + CNV + F8 analysis NGS + CNV + F8 analysis NGS + CNV + mtDNA NGS + CNV + mtDNA NGS + CNV + mtDNA NGS + CNV + MtDNA NGS + CNV NGS + CNV + MtDNA NGS + CNV NGS + CNV NGS + CNV + MtDNA
cases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCxrdio CentoDx CentoDx CentoDysmorph CentoHear CentoHear CentoIEM Centolimuno CentoMito Comprehensive CentoMito Genome CentoNephro CentoNephro CentoNephro CentoNephro CentoNeuro CentoSkin	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744 326 450 37 495 496 >1800 152	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x ≥99,0% ≥20x 100% ≥99,0% ≥20x ≥99,0% ≥20x	10 days 10 days 25 days 26 day	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MtPA (5) NGS + CNV + MtPA (5) NGS + CNV + MtDNA NGS + CNV + mtDNA NGS + CNV nuclear mitochondrial genes + mtDNA NGS + large deletions in mitochondrial encoded genes NGS + CNV
cases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDx CentoDx CentoDx CentoDx CentoDx CentoHear CentoIcU CentoIEM CentoImuno CentoMito Comprehensive CentoMito Genome CentoMito Genome CentoNephro CentoNephro CentoNeuro CentoNeuro CentoSkin CentoVision Congenital adrenal hyperplasia (CAH) panel Connective tissue and related disorder panel Diabetes and obesity panel	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744 326 450 37 495 496 >>1800 152 447 12 76 265	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x	10 days 10 days 25 days 26 day	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS+ CNV NGS+ CNV + Repeat Expansion analysis + mtDNA NGS+ CNV + Repeat Expansion analysis + mtDNA NGS+ CNV + Repeat Expansion analysis + mtDNA Repeat expansion analysis NGS+ CNV + MLPA (5) NGS+ CNV + MLPA (5) NGS+ CNV + MLPA (5) NGS+ CNV + MLPA (6) NGS+ CNV + MTDNA NGS+ CNV + MTDNA NGS+ CNV + MTDNA NGS+ CNV + MTDNA NGS+ CNV NGS+ CNV + MTDNA NGS+ CNV + MTDNA NGS+ CNV + CYP21A2 analysis
cases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDyx CentoDyx CentoDyx CentoHear CentoICU CentoIEM CentoIEM CentoIIMM CentoMito Comprehensive CentoMito Genome CentoMito Genome CentoNephro CentoNeuro CentoNeuro CentoNeuro CentoNeuro CentoNeuro CentoVision Congenital adrenal hyperplasia (CAH) panel Connective tissue and related disorder panel Diabetes and obesity panel	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744 326 450 37 495 496 >1800 152 447 12 76 6265 784	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x	10 days 10 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MtDPA (5) NGS + CNV + F8 analysis NGS + CNV + F8 analysis NGS + CNV + mtDNA NGS + CNV NGS + CNV + MtDNA NGS + CNV + MtDNA NGS + CNV + CVP21A2 analysis NGS + CNV + NGS + CNV + MtDNA NGS + CNV + TEPPAL analysis + mtDNA NGS + CNV + repeat expansion analysis + mtDNA
cases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia comprehensive panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDx CentoDx CentoDx CentoHear CentoICU CentoIEM CentoIEM CentoIliM CentoMito Comprehensive CentoMito Genome CentoNephro CentoNephro CentoNephro CentoNephro CentoNephro CentoNeuro CentoSkin CentoSkin CentoPyision Congenital adrenal hyperplasia (CAH) panel Connective tissue and related disorder panel Diabetes and obesity panel Epilepsy panel Intellectual disability panel	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744 326 450 37 495 >1800 152 447 12 76 265 784 817	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x	10 days 10 days 10 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA Repeat expansion analysis NGS + CNV + MLPA (5) NGS + CNV + MLPA (5) NGS + CNV + MLPA (5) NGS + CNV + MTDNA NGS + CNV NGS + CNV + mtDNA NGS + CNV + PKD1 analysis NGS + CNV + TDNA NGS + CNV + MTDNA NGS + CNV + TPATA 2 analysis NGS + CNV + TPATA 2 analysis
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Panel Testing (Inherited Diseases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / spastic paraplegia panel Ataxia repeat expansion panel Ataypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDx CentoDx CentoDx CentoHear CentoIEM CentoIEM CentoIIM CentoMito Comprehensive CentoMito Genome CentoMito Genome CentoNephro CentoNephro CentoNephro CentoNephro CentoNephro Plus CentoNebro CentoSkin CentoVision Congenital aderaal hyperplasia (CAH) panel Connective tissue and related disorder panel Diabetes and obesity panel Intellectual disability panel Neuromuscular panel Parkinson disease panel Pulmonary panel CentoNIPT Singleton CentoNIPT Singleton	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744 326 450 37 495 496 >1800 152 447 12 76 265 784 817 354 29 115	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x	10 days 10 days 10 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA Repeat expansion analysis NGS + CNV + MtDNA Repeat expansion analysis NGS + CNV + MtPA (5) NGS + CNV + MtPA (5) NGS + CNV + MtPA (5) NGS + CNV + MtDNA NGS + CNV NGS + CNV + mtDNA NGS + CNV + PKD1 analysis NGS + CNV + TtDNA NGS + CNV + FMR1 analysis + mtDNA NGS + CNV + FMR1 analysis + mtDNA NGS + CNV + repeat expansion analysis + mtDNA NGS + CNV + repeat expansion analysis + mtDNA NGS + CNV + repeat expansion analysis + mtDNA NGS + CNV + repeat expansion analysis + mtDNA NGS + CNV + repeat expansion analysis
Panel Testing (Inherited Diseases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDx CentoDx CentoDx CentoDx CentoHear CentoHear CentoIEM Centolimuno CentoMito Comprehensive CentoMito Genome CentoNephro CentoNephro CentoNephro CentoNephro CentoNephro CentoNephro CentoNsin CentoVision Congenital adrenal hyperplasia (CAH) panel Connective tissue and related disorder panel Diabetes and obesity panel Intellectual disability panel Neuromuscular panel Pancreatitis panel Parkinson disease panel Pulmonary panel CentoNIPT Singleton CentoNIPT Twin CentoScreen Solo	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744 326 450 37 495 496 >>1800 >>180 >>12 265 784 817 354 29 115 100	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x	10 days 10 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + REPATE PROPERTIES AND
Panel Testing (Inherited Diseases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / spastic paraplegia panel Ataxia repeat expansion panel Ataypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDx CentoDx CentoDx CentoHear CentoIEM CentoIEM CentoIIM CentoMito Comprehensive CentoMito Genome CentoMito Genome CentoNephro CentoNephro CentoNephro CentoNephro CentoNephro Plus CentoNebro CentoSkin CentoVision Congenital aderaal hyperplasia (CAH) panel Connective tissue and related disorder panel Diabetes and obesity panel Intellectual disability panel Neuromuscular panel Parkinson disease panel Pulmonary panel CentoNIPT Singleton CentoNIPT Singleton	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744 326 450 37 495 496 >1800 152 447 12 76 265 784 817 354 29 115	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x	10 days 10 days 10 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA Repeat expansion analysis NGS + CNV + MtDNA Repeat expansion analysis NGS + CNV + MtDNA NGS + CNV NGS + CNV + mtDNA NGS + CNV + PKD1 analysis NGS + CNV + TDNA NGS + CNV + TPDNA NGS + CNV + TPDNA NGS + CNV + TPDNA NGS + CNV + TPPDAT Expansion analysis + mtDNA NGS + CNV + FMR1 analysis + mtDNA NGS + CNV + FMR1 analysis + mtDNA NGS + CNV + TPPDAT Expansion an
Panel Testing (Inherited Diseases)	Solid tumor panel (somatic) Myeloid tumor panel (somatic) Abnormal mineralization panel Amyotrophic lateral sclerosis (ALS) / Dementia panel Ataxia / Spastic paraplegia comprehensive panel Ataxia / Spastic paraplegia panel Ataxia repeat expansion panel Atypical hemolytic uremic syndrome (aHUS) panel Blood coagulation panel Bone marrow failure / Anemia panel CentoCardio CentoDx CentoDx CentoDx CentoDx CentoEM CentoICU CentoIEM CentoIEM CentoIIEM CentoMito Genome CentoMito Genome CentoNephro CentoNephro CentoNephro CentoNephro CentoNeuro CentoSkin CentoNeuro CentoSkin CentoVision Congenital adrenal hyperplasia (CAH) panel Connective tissue and related disorder panel Diabetes and obesity panel Intellectual disability panel Neuromuscular panel Parkinson disease panel Parkinson disease panel Parkinson disease panel CentoNIPT Twin CentoScreen Solo CentoScreen Paired Pack	149 22 94 105 492 481 13 25 112 211 323 ~6500 770 196 855 744 326 450 37 496 >1800 152 447 12 76 265 784 817 354 29 115 100	≥97% ≥200x ≥97%≥200x ≥99,0% ≥20x	10 days 10 days 25 days	Somatic analysis of solid tumors Somatic analysis of myeloid tumors NGS + CNV NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA NGS + CNV + Repeat Expansion analysis + mtDNA Repeat expansion analysis NGS + CNV + mtDNA Repeat expansion analysis NGS + CNV + MtPA (5) NGS + CNV + MtPA (5) NGS + CNV + MtDNA NGS + CNV + mtDNA NGS + CNV + mtDNA NGS + CNV + MtDNA NGS + CNV + repeat expansion analysis + mtDNA
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- 5	CentoArrayCyto Prenatal HD	Genome-wide	_	15 davs	con carrare. maternar con contamination (most) optional as per separate order. I flos per testi
Reproductive Healtl	CentoXinayCyto Prenatal 118	~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 test1
	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 davs	
	CentoGenome Prenatal Solo	≥20,000	≥97% ≥10x	15 davs	
	CentoGenome Prenatal Duo	≥20.000	≥97% ≥10x	15 davs	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 Trio	≥20,000	>97% >10x	15 days	
	CentoGenome Prenatal PLUS	≥20,000	≥97% ≥10x	15 days	
	Centodenome Fieratal F203	220,000	23770 EIOX	15 days	Sanger sequencing - category \$ -genes / 1-10 Exons
	Selection of Sanger (single gene analysis)	1	100%	15 days	Sanger sequencing - category M -genes / 11-25 Exons
v	Sciection of Sanger (Single gene analysis)	_		,-	Sanger sequencing - category L-genes / 25+ Exons
Single Gene Analysis	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	10070	15 days	Known familial targeted point mutation testing
	Carrier testing sanger (point mutation) Carrier testing aPCR (del/dup)	1	_	15 days	Known familial targeted deletion/duplication testing
	Selection of Repeat Expansion and	1	_	15 days	FMR1
٠,	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
	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
<u>نے جو</u>	CentoNCI	2	-	10 days	Elizyttie activity testing for available diseases/genes
Biochemical Testing	CentoNCE	8	-	10 days	Complete enzyme panel analysis for related diseases (see CentoPortal for disease detail).
	CentoSphingo	12	-	10 days	
	CentoLSD	21	-	10 days	
Analysis & Interpretation Services	CentoCloud medical evaluation - Hereditary Oncology panel	≥70		10 days	
	CentoCloud medical evaluation - Hereditary Oncology panel CentoCloud medical evaluation - Rare Disease panel	≥2.500	-	10 days	Dividia di la la compania del Contro Ci Contro
	·		-	,	Digital data analysis and interpretation platform for FASTQ files from Illumina sequencing technology. Bioinformatic analysis with medical reporting of diagnostic findings (SNVs, InDels,
	CentoCloud medical evaluation - Exome	variable	-	10 days	CNVs). BAM, VCF and filtered and annotated variant file (XLS) for download. For WES/WGS
	CentoCloud medical evaluation - Genome	≥20.000	-	10 days	research, secondary and carriership findings can be provided. Price per dataset/report!