Evartia METABOLIC PANEL

Evartia metabolic panel tests for 13 main categories of metabolic diseases in a single, detailed panel of 223 genes. The clinical phenotype is similar between many metabolic diseases, and may include neurological, motor, behavioral, learning, or gastrointestinal symptoms. Treatment is usually symptomatic and involves dietary management, nutritional supplements and enzyme replacement therapies. Investigational therapies are available for several disorders.

3-Methylglutaconic aciduria			
Genes (8)	AR	AD	XL
AUH, DNAJC19, SERAC1, TIMM50, TMEM70	•		
CLPB, OPA3	•	•	
TAFAZZIN			•

Disorders tested include: Barth syndrome; 3-Methylglutaconic aciduria type III; 3-Methylgutaconic aciduria type V

Cerebral creatine deficiency			
Genes (3)	AR	AD	XL
GAMT, GATM	•		
SLC6A8			•
Disorders tested include: Cerebral creatine deficiency syndrome 1; Cerebral creatine deficiency syndrome 2			

Congenital disorders of glycosylation			
Genes (50)	AR	AD	XL
ALG1, ALG2, ALG3, ALG6, ALG8, ALG9, ALG11, ALG12, B4GALT1, CAD, CCDC115, COG1, COG2, COG5, COG6, COG7, COG8, DDOST, DOLK, DPAGT1, DPM1, DPM2, DPM3, FUT8, GMPPA, MAN1B1, MGAT2, MOGS, MPDU1, MPI, NGLY1, PGM1, PMM2, RFT1, SLC35A1, SLC35C1, SLC39A8, SRD5A3, STT3B, TMEM165, TMEM199, TUSC3	•		
COG4, DHDDS, GNE, NUS1, STT3A	•	•	
ALG13, SLC35A2, SSR4			•
Disorders tested include: Congenital disorder of glycosylation type Ic; Congenital disorder of glycosylation type Ia			

Genes (21)	AR	AD	
ACAD8, ACAD9, ACADM, ACADS, ACADSB, ACADVL, CPT1A, ETFA, ETFB, ETFDH, HADH, HADHA, HADHB, HMGCL, HMGCS2, MLYCD, SLC22A5, SLC25A20	•		Ī
CPT2	•	•	T
HSD17B10, TAFAZZIN			Ť

Glycine encephalopathy			
Genes (5)	AR	AD	XL
AMT, GCSH, GLDC, LIAS, SLC6A9	•		
Disorders tested include: Glycine encephalopathy; Hyperglycinemia (Lactic acidosis and seizures)			

Glycogen storage diseases			
Genes (25)	AR	AD	XL
AGL, ALDOA, ALDOB, ENO3, FBP1, G6PC, GAA, GBE1, GYG1, GYS1, GYS2, LDHA, PFKM, PGAM2, PHKB, PHKG2, PYGL, PYGM, SLC2A2	•		
PRKAG2		•	
CPT2, SLC37A4	•	•	
LAMP2, PHKA1, PHKA2			•
Disorders tested include: Glycogen storage disease la (Von Gierke disease); Glycogen storage disease II (Pompe disease)			

Hyperinsulinemic hypoglycemia			
Genes (7)	AR	AD	XL
HADH	•		
GCK, GLUD1, INSR, SLC16A1		•	
ABCC8, KCNJ11	•	•	
Disorders tested include: Hyperinsulinemic hypoglycemia, familial, types 1, 2, 3, 4, 5, 7; Hyperinsulinism-Hyperammonemia syndrome			

Hyperphenylalaninemia			
Genes (6)	AR	AD	XL
DNAJC12, PAH, PCBD1, PTS, QDPR	•		
GCH1	•	•	
Disorders tested include: Hyperphanylalaninemia A RH4-Deficient: Phenylalanine hydroxylase deficiency			

Lysosomal storage disorders			
Genes (56)	AR	AD	XL
AGA, ARSA, ARSB, ASPA, BTD, CLN3, CLN5, CLN6, CLN8, CTNS, CTSA, CTSK, DHCR7, FUCA1, GAA, GALC, GALNS, GBA, GCDH, GLB1, GM2A, GNPTAB, GNPTG, GNS, GUSB, HEXA, HEXB, HGSNAT, HYAL1, IDUA, LIPA, MAN1B1, MAN2B1, MANBA, MCOLN1, MFSD8, NAGA, NAGLU, NEU1, NPC1, NPC2, PPT1, PSAP, SGSH, SLC17A5, SLC25A15, SMPD1, SUMF1, TPP1, VPS33A	•		
HRAS		•	
GNE, HPD	•	•	
GLA, IDS, LAMP2			•
Disorders tested include: Aspartylglucosaminuria; Fabry disease; Gaucher disease (atypical); Metachromatic leukodystrophy due to SAP-B deficiency; Mu	ucopolys	acchari	dosis

 $type\ II\ (Hunter\ syndrome);\ Mucopolysaccharidosis\ Type\ III\ (Sanfilippo\ A,\ B,\ C\ and\ D),\ Niemann-Pick\ types\ A,\ B,\ C\ and\ D;\ Sandhoff\ disease;\ Tay-Sachs\ disease$

Maple syrup urine disease and DLD deficiency			
Genes (5)	AR	AD	XL
BCKDHA, BCKDHB, DBT, DLD, PPM1K	•		
Disorders tested include: Maple syrup urine disease types Ia, Ib, II, III			

Methylmalonic Acidemia					
Genes (17)	AR	AD	XL		
ABCD4, ACSF3, ALDH6A1, CD320, LMBRD1, MCEE, MLYCD, MMAA, MMAB, MMACHC, MMADHC, MMUT, MTR, MTRR, SUCLA2, SUCLG1	•				
HCFC1			•		
Disorders tested include: Methylmalonic acidemia due to methylmalonic-CoA mutase deficiency; Methylmalonic acidemia, cblA type					

Peroxisomal disorders				
Genes (21)	AR	AD	XL	
ACOX1, AGPS, AMACR, HSD17B4, PEX1, PEX2, PEX3, PEX5, PEX7, PEX10, PEX11B, PEX12, PEX13, PEX14, PEX16, PEX19, PEX26, PHYH, SCP2	•			
PEX6	•	•		
ABCD1			•	
Disorders tested include: Adrenoleukodystrophy; Peroxisome biogenesis disorder 1A, 2A, 2B (Zellweger syndrome)				

Urea cycle disorders			
Genes (8)	AR	AD	XL
ARG1, ASL, ASS1, CPS1, NAGS, SLC25A13, SLC25A15	•		
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Disorders tested include: Argininemia, Citrullinemia			

 AR: AUTOSOMAL RECESSIVE AD: AUTOSOMAL DOMINANT XL: X-LINKED













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