

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 disorders			
Genes (8)	AR	AD	XL
AUH, CLPB, DNAJC19, SERAC1, TIMM50, TMEM70	•		
OPA3	•	•	
TAZ			•
Discretors tested includes Barth syndromas Costoff syn	drama	DCMA	

Disorders tested include: Barth syndrome; Costeff syndrome; DCMA syndrome; Megdel syndrome

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, ALG9, ALG11, ALG12, B4GALT1, CAD, CCDC115, COG1, COG2, COG5, COG7, COG8, DDOST, DOLK, DPAGT1, DPM1, DPM2, DPM3, FUT8, GMPPA, MAN1B1, MGAT2, MOGS, MPDU1, MPI, NGLY1, PGM1, PMM2, RFT1, SLC35A1, SLC35C1, SLC39A8, SRD5A3, STT3A, STT3B, TMEM165, TMEM199, TUSC3	•		
ALG8, COG4, COG6, DHDDS, NUS1, GNE	•	•	
ALG13, SLC35A2, SSR4			•

Disorders tested include: ALG6-Congenital disorder of glycosylation (CDG-Ic); PMM2-Congenital disorder of glycosylation (CDG-Ia)

Glycine encephalopathy Genes (5) AR AD XL AMT, GCSH, GLDC, LIAS, SLC6A9

Disorders tested include: Glycine encephalopathy (Non-ketonic hyperglycinemia); Hyperglycinemia, lactic acidosis, and seizures [Pyruvate dehydrogenase lipoic acid synthetase deficiency (PDHLD)]

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, SLC37A4	•		
PRKAG2		•	
CPT2	•	•	
LAMP2, PHKA1, PHKA2			•

Disorders tested include: Glycogen storage disease la (Von Gierke disease); Glycogen storage disease ll (Pompe disease)

Fatty acid oxidation disorders			
Genes (21)	AR	AD	XL
ACAD8, ACAD9, ACADM, ACADS, ACADSB, ACADVL, CPT1A, ETFA, ETFB, ETFDH, HADH, HADHA, HADHB, HMGCL, HMGCS2, MLYCD, SLC22A5, SLC25A2O	•		
CPT2	•	•	
HSD17B10, TAZ			•

Disorders tested include: Medium chain acyl-CoA dehydrogenase (MCHAD) deficiency; Short chain acyl-CoA dehydrogenase (SCHAD) deficiency; Systemic primary carnitine deficiency; Very long chain acyl-CoA dehydrogenase (VLCAD) deficiency

Hyperinsulinemic hypoglycemia			
Genes (7)	AR	AD	XL
HADH	•		
GLUD1, SLC16A1		•	
ABCC8, GCK, INSR, KCNJ11	•	•	
Disorders tested include: Hyperinsulinemic hypoglycemia, familial, types 1, 2, 3, 4, 5, 6, 7			

Hyperphenylalaninemia			
Genes (6)	AR	AD	XL
DNAJC12, PAH, PCBD1, PTS, QDPR	•		
GCH1	•	•	
Disorders tested include: Hyperphenylalaninemia, BH4-deficient, A (6-pyruvoyltetrahydropterin synthase deficiency), Phenylketonic	uria		

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, NEU1, NPC1, NPC2, PPT1, PSAP, SGSH, SLC17A5, SLC25A15, SMPD1, SUMF1, TPP1, VPS33A	•		
HRAS		•	
GNE, HPD, NAGLU	•	•	
GLA, IDS, LAMP2			•
Disorders tested include: Aspartylglucosaminuria; Fabry disease; Gaucher disease; Metachromatic leukodystrophy; Mucopolysacchar	dosis ty	ype 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 disorders

Maple syrup urine disease and DLD deficiency disorders			
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, SUCLA2, SUCLG1, MTR, MTRR	•		
HCFC1			•
Disordays tasted include: Mathylmalonyl_CoA mutasa deficiency. Mathylmalonic acidemia due to cobalamin A deficiency.			

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

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

AR: AUTOSOMAL RECESSIVE

AD: AUTOSOMAL DOMINANT

XL: X-LINKED









