



Table 3: Organic Acid Disorders

Overall Result	Disorder	Screening Result	Analyte(s)	Analyte Result	Screening Result Note
Normal		Normal			
Abnormal	Organic Acid Disorders	Abnormal	C3 C3/C2	Borderline or Normal Elevated or Normal	Possible Organic Acid Disorder. C3 and C3/C2 analyzed to determine result. If this is the second screen, follow recommendations received from Clinical Care Coordination. Otherwise, repeat the newborn screen within 7 days.
Abnormal	Organic Acid Disorders	Abnormal	C3 C3/C2	Elevated Elevated or Normal	Possible Methylmalonic Acidemia or Propionic Acidemia. C3 Elevated. Recommend plasma methylmalonic acid, total plasma homocysteine, plasma acylcarnitine profile and urine organic acids within 24 hours and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Organic Acid Disorders	Abnormal	C3 C3/C2	Borderline Elevated	Possible Methylmalonic Acidemia or Propionic Acidemia. C3 Slightly Elevated; C3/C2 Elevated. Recommend plasma methylmalonic acid, total plasma homocysteine, plasma acylcarnitine profile and urine organic acids within 24 hours and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Organic Acid Disorders	Abnormal	C3DC+C4OH C3DC+C4OH/C5DC	Borderline Elevated	Possible Organic Acid Disorder. C3DC+C4OH Slightly Elevated; C3DC+C4OH/C5DC Elevated. If this is the second screen, follow recommendations received from Clinical Care Coordination. Otherwise, repeat the newborn screen within 7 days.
Abnormal	Organic Acid Disorders	Abnormal	C3DC+C4OH C3DC+C4OH/C5DC	Elevated Elevated or Normal	Possible MAL or M/SCHAD. C3DC+C4OH Elevated. Recommend plasma acylcarnitine profile, plasma insulin, plasma methylmalonic acid, urine organic acids and telephone consultation with a pediatric metabolic specialist within 48 hours.
Abnormal	Organic Acid Disorders	Abnormal	C5	Borderline	Possible Organic Acid Disorder. C5 Slightly Elevated. If this is the second screen, follow recommendations received from Clinical Care Coordination. Otherwise, repeat the newborn screen within 7 days.



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Abnormal	Organic Acid Disorders	Abnormal	C5	Elevated	Possible Isovaleric Acidemia or 2MBG. C5 Elevated. Recommend plasma acylcarnitine profile, urine organic acids and urine acylglycines within 24 hours and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Organic Acid Disorders	Abnormal	C5DC	Elevated	Possible GA1. C5DC Elevated. Recommend plasma acylcarnitine profile and urine organic acids within 7 days and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Organic Acid Disorders	Abnormal	C5-OH C5:1 C6DC	Borderline Elevated, Borderline, or Normal	Possible Organic Acid Disorder. C5-OH Slightly Elevated. If this is the second screen, follow recommendations received from Clinical Care Coordination. Otherwise, repeat the newborn screen within 7 days.
Abnormal	Organic Acid Disorders	Abnormal	C5:1 C5-OH C6DC	Borderline Elevated, Borderline, or Normal	Possible Organic Acid Disorder. C5:1 Slightly Elevated. If this is the second screen, follow recommendations received from Clinical Care Coordination. Otherwise, repeat the newborn screen within 7 days.
Abnormal	Organic Acid Disorders	Abnormal	C5-OH C5:1 C6DC	Elevated Elevated, Borderline, or Normal	Possible 3MCC, HMG, MCD, 3MGA or 2M3HBA. C5-OH Elevated. Recommend urine organic acids, urine acylglycines and plasma acylcarnitine profile on infant and mother within 24 hours and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Organic Acid Disorders	Abnormal	C5-OH C5:1 C6DC	Elevated Elevated Borderline or Normal	Possible 3MCC, HMG, MCD, BKT, 3MGA or 2M3HBA. C5-OH and C5:1 Elevated. Recommend urine organic acids, urine acylglycines and plasma acylcarnitine profile on infant and mother within 24 hours and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Organic Acid Disorders	Abnormal	C5-OH C5:1 C6DC	Borderline Elevated Borderline or Normal	Possible 3MCC, HMG, MCD, BKT, 3MGA or 2M3HBA. C5-OH Slightly Elevated; C5:1 Elevated. Recommend urine organic acids, urine acylglycines and plasma acylcarnitine profile on infant and mother within 24 hours and immediate telephone consultation with a pediatric metabolic specialist.



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Overall Result	Disorder	Screening Result	Analyte(s)	Analyte Result	Screening Result Note
Abnormal	Organic Acid Disorders	Abnormal	C5:1 C5-OH C6DC	Elevated Normal Normal	Possible BKT. C5:1 Elevated; C5-OH and C6DC Normal. Recommend urine organic acids, plasma acylcarnitine profile and urine acylglycines on infant and mother within 24 hours and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Organic Acid Disorders	Abnormal	C5-OH C6DC C5:1	Elevated Elevated Normal	Possible HMG. C5-OH and C6DC Elevated; C5:1 Normal. Recommend urine organic acids, plasma acylcarnitine profile and urine acylglycines on infant and mother within 24 hours and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Organic Acid Disorders	Abnormal	C5-OH C6DC C5:1	Borderline Elevated Normal	Possible HMG. C5-OH Slightly Elevated; C6DC Elevated; C5:1 Normal. Recommend urine organic acids, plasma acylcarnitine profile and urine acylglycines on infant and mother within 24 hours and immediate telephone consultation with a pediatric metabolic specialist.
Abnormal	Organic Acid Disorders	Non-specific			Elevation(s) in a non-diagnostic pattern. Repeat the newborn screen within 7 days.
Abnormal	Organic Acid Disorders	TPN			Possible TPN. Repeat the newborn screen when TPN is discontinued.
Normal	Organic Acid Disorders	Revised Result			free text
Abnormal	Organic Acid Disorders	Revised Result			free text
Unsatisfactory	Organic Acid Disorders	Revised Result			free text