



**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<br>C3/C2                 | Borderline or Normal<br>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<br>C3/C2                 | Elevated<br>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<br>C3/C2                 | Borderline<br>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<br>C3DC+C4OH/C5DC | Borderline<br>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<br>C3DC+C4OH/C5DC | Elevated<br>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<br>C5:1<br>C6DC | Borderline<br>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<br>C5-OH<br>C6DC | Borderline<br>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<br>C5:1<br>C6DC | Elevated<br>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<br>C5:1<br>C6DC | Elevated<br>Elevated<br>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<br>C5:1<br>C6DC | Borderline<br>Elevated<br>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<br>C5-OH<br>C6DC | Elevated<br>Normal<br>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<br>C6DC<br>C5:1 | Elevated<br>Elevated<br>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<br>C6DC<br>C5:1 | Borderline<br>Elevated<br>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  |