

**Provider:** sample  
**Patient:** sample  
**Accession #:**

**Sex:**  
**Age:**  
**Sample Type:** Urine Card

**Collected:**  
**Received:**  
**Completed:**

Analyte	Result ( $\mu\text{g}/\text{mg}$ creatinine)	Reference Range	Population Percentile	
<b>Xylene Exposure</b>				
1. 3-Methylhippurate	<LLOQ	< 0.18	N/A	N/A
2. 2-Methylhippurate	<LLOQ	< 0.06	N/A	N/A
<b>Toluene Exposure</b>				
3. Hippurate (H)	1101.08	< 768.53	99%	
4. Benzoate	<LLOQ	< 6.87	N/A	N/A
Benzoate is metabolized to Hippurate. Elevations may cause elevated Hippurate independent of Toluene.				
<b>Benzene Exposure</b>				
5. t,t-Muconic Acid	<LLOQ	< 0.15	N/A	N/A
<b>Trimethylbenzene Exposure</b>				
6. 3,4-Dimethylhippurate	<LLOQ	< 0.01	N/A	N/A
<b>Styrene Exposure</b>				
7. Mandelate	0.38	< 0.34	88%	
8. Phenylglyoxylate (H)	0.50	< 0.30	100%	
9. Mandelate + Phenylglyoxylate (H)	0.88	< 0.61	98%	
<b>Phthalate Exposure</b>				
10. Monoethyl Phthalate (H)	0.14	< 0.10	90%	
11. Phthalate (H)	0.21	< 0.17	90%	
12. Quinolinate	3.03	< 5.37	28%	
<b>Paraben Exposure</b>				
13. Para-Hydroxybenzoate	<LLOQ	< 1.43	N/A	N/A
<b>Methyl Tert-butyl Ether Exposure</b>				
14. Alpha-Hydroxyisobutyrate	6.92	< 6.35	83%	

Reference range updated 5/21/2021. Reference range is not gender adjusted. Reference range is age adjusted for children. Method: LC/MS/MS. LLOQ: Lower limit of quantitation ULOQ: Upper limit of quantitation. Lactate is reported as D- and L-Lactate combined on OAP. This test is not intended to diagnose, treat, cure, or prevent any disease or replace the medical advice and/or treatment obtained from a qualified healthcare practitioner. US BioTek Laboratories has developed and determined the performance characteristic of this test under the Clinical Laboratory Improvement Amendments (CLIA). This test has not been evaluated by the U.S. Food and Drug Administration. This test does not assess for neonatal inborn errors of metabolism and is based on stable renal function and normal renal clearance.