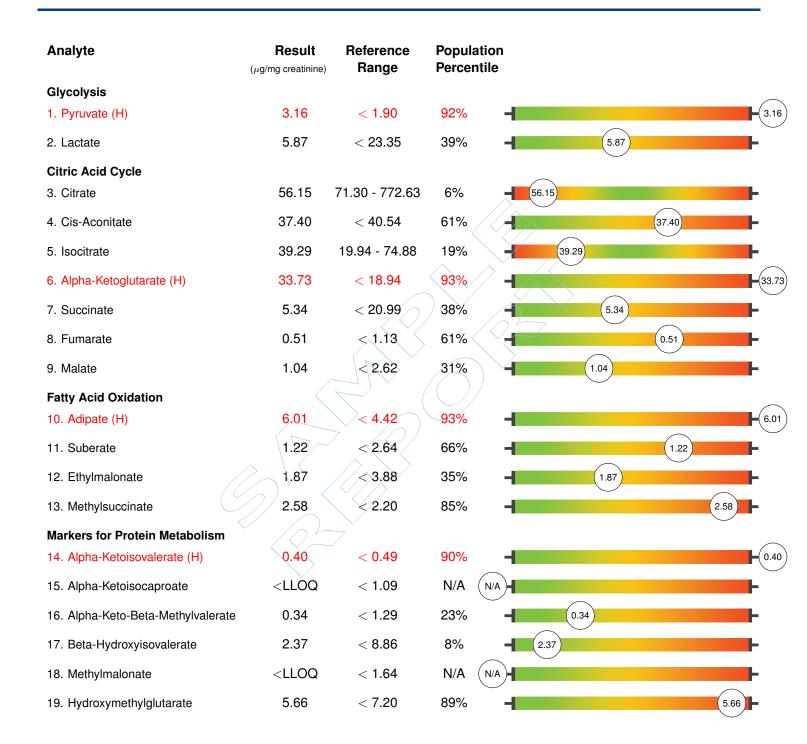


Provider: sample Patient: sample Accession #: Sex: Collected:
Age: Received:
Sample Type: Urine Card Completed:



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.



Provider: sample Patient: sample Accession #: Sex: Collected:
Age: Received:
Sample Type: Urine Card Completed:

Analyte	Result (μg/mg creatinine)	Reference Range	Population Percentile
Ketone Metabolites			
20. Alpha-Hydroxybutyrate	0.21	< 1.24	25% (0.21)
21. Beta-Hydroxybutyrate	0.91	< 8.09	54% - 0.91
Markers of Neurotransmitter Metab	oolism		
22. Vanilmandelate	3.26	< 3.64	63%
23. Homovanillate (H)	8.12	< 6.66	90%
24. 5-Hydroxyindoleacetate	4.69	1.17 - 8.06	81% 4.69
25. Quinolinate	3.03	< 5.37	28% - 3.03
26. Kynurenate	1.88	< 2.49	59%
Markers of Detoxification			
27. Para-Hydroxyphenyllactate	0.68	< 1.55	81%
28. Orotate	<lloq< td=""><td>< 1.04</td><td>N/A N/A</td></lloq<>	< 1.04	N/A N/A
29. Pyroglutamate	38.45	14.58 - 37.47	90% - 38.45
30. Benzoate	<lloq< td=""><td>< 6.87</td><td>N/A N/A</td></lloq<>	< 6.87	N/A N/A
31. Hippurate (H)	1101.08	17.13 - 768.53	99%
Markers of Bacterial Metabolism		\	
32. Para-Hydroxybenzoate	<llqq_< td=""><td>< 1.43</td><td>N/A (N/A)</td></llqq_<>	< 1.43	N/A (N/A)
33. Para-Hydroxyphenylacetate (H)	20.54	< 26.39	90% – 20.54
34. 2-Hydroxyphenylacetate	1.16	< 1.24	81%
35. 3-Indoleacetate (L)	<lloq< td=""><td>0.46 - 9.21</td><td>N/A N/A</td></lloq<>	0.46 - 9.21	N/A N/A
36. Tricarballylate (H)	1.56	< 1.06	91%

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.

Environmental Pollutants Profile

Provider: sampleSex:Collected:Patient: sampleAge:Received:Accession #:Sample Type: Urine CardCompleted:

Analyte	Result (μg/mg creatinine)	Reference Range	Population Percentile
Xylene Exposure			
1. 3-Methylhippurate	<lloq< td=""><td>< 0.18</td><td>N/A N/A</td></lloq<>	< 0.18	N/A N/A
2. 2-Methylhippurate	<lloq< td=""><td>< 0.06</td><td>N/A N/A</td></lloq<>	< 0.06	N/A N/A
Toluene Exposure			
3. Hippurate (H)	1101.08	< 768.53	99%
4. Benzoate	<lloq< td=""><td>< 6.87</td><td>N/A N/A</td></lloq<>	< 6.87	N/A N/A
Benzoate is metabolized to Hippurate. Elevation Toluene.	ns may cause elevated h	Hippurate independent	of
Benzene Exposure			
5. t,t-Muconic Acid	<lloq< td=""><td>< 0.15</td><td>N/A N/A</td></lloq<>	< 0.15	N/A N/A
Trimethylbenzene Exposure			
6. 3,4-Dimethylhippurate	<lloq< td=""><td>< 0.01</td><td>N/A N/A</td></lloq<>	< 0.01	N/A N/A
Styrene Exposure			
7. Mandelate	0.38	< 0.34	88%
8. Phenylglyoxylate (H)	0.50	< 0.30	100%
9. Mandelate + Phenylglyoxylate (H)	0.88	< 0.61	98%
Phthalate Exposure	$\langle \gamma \rangle$	X	
10. Monoethyl Phthalate (H)	0.14	< 0.10	90% - 0.14
11. Phthalate (H)	0.21	< 0.17	90%
12. Quinolinate	3.03	< 5.37	28% 3.03
Paraben Exposure			
13. Para-Hydroxybenzoate	<lloq< td=""><td>< 1.43</td><td>N/A N/A</td></lloq<>	< 1.43	N/A N/A
Methyl Tert-butyl Ether Exposure			
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.



MYCOTOXIN PANEL REPORT FORM 03/06/2023

16020 Linden Ave North Shoreline, WA 98133 www.usbiotek.com

PATIENT INFORMATION

Patient:

Patient Date of Birth: Patient Sex:

MRN/Patient ID:

Patient Passport No: Patient Email:

ORDER INFORMATION

Accession No: KTEST-0306 Reported On: 03/06/2023

Physician: Practice: Address: SAMPLE INFORMATION

Date of Receipt: 03/06/2023 Time of Receipt: 08:25

Date of Collection: 03/6/2023 Time of Collection: 00:15 Specimen Type: Urine LAB INFORMATION

Phone: Fax: Email:

CLIA #: CAP #: Tax ID #:

Procedure Type: Semi-quantitative procedure by ELISA

List of Mycotoxins tested in the Panel

Ochratoxin A - Procedure by ELISA

Aflatoxin Group: (B1, B2, G1, G2) - Procedure by ELISA

Trichothecene Group (Macrocyclic): Roridin A, Roridin E, Roridin H, Roridin L-2, Verrucarin A, Verrucarin J, Satratoxin G, Satratoxin H, Isosatratoxin F

Procedure by ELISA

Gliotoxin Derivative - Procedure by ELISA

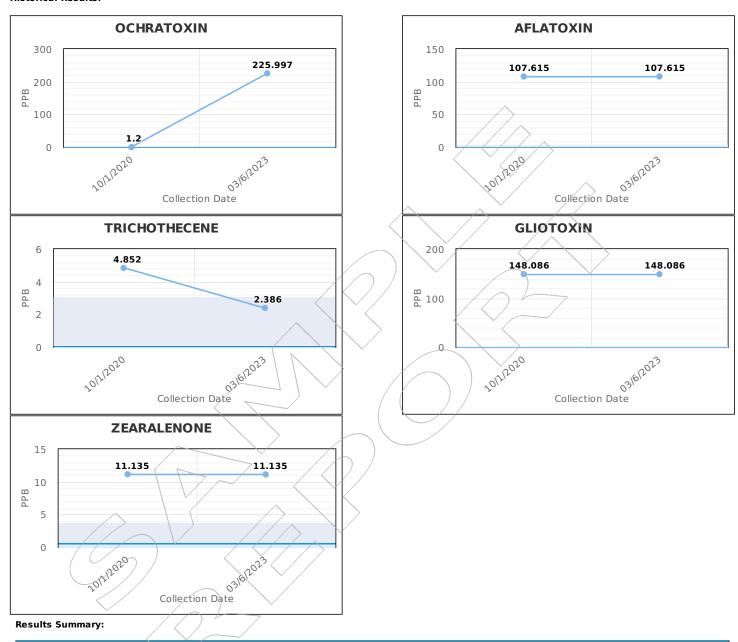
Zearalenone - Procedure by ELISA

Results:

Code	Test	Specimen	Value		Not Present if less than	Equivocal if between	Present if greater or equal
E8501	Ochratoxin A	Urine	>70.0 ppb	Present	1.8 ppb	1.8-2 ppb	2 ppb
E8502	Aflatoxin Group: (B1, B2, G1, G2)	Urine	>56.0 ppb	Present	0.8 ppb	0.8-1 ppb	1 ppb
E8503	Trichothecene Group (Macrocyclic): Roridin A, Roridin E, Roridin H, Roridin L-2, Verrucarin A, Verrucarin J, Satratoxin G, Satratoxin H, Isosatratoxin F	Urine	2.38600 ppb	Present	0.07 ppb	0.07-0.09 ppb	0.09 ppb
E8510	Gliotoxin Derivative	Urine	>50.0 ppb	Present	0.5 ppb	0.5-1.0 ppb	1 ppb
E8512	Zearalenone	Urine	11.13500	Present	0.5 ppb	0.5-0.7 ppb	0.7 ppb

Director or Designee Signature

Historical Results:



Accession No	Collection Date	Ochra Result	Afla Result	Tricho Result	Gliotoxin Result	Zearalenone Result
KTEST-0306	03/6/2023	225.99700 - Present	107.61500 - Present	2.38600 - Present	148.08600 - Present	11.13500 - Present
KT0201-3	02/1/2023	V				
KTESTZ-1	10/1/2020	1.20000 - Not Present	107.61500 - Present	4.85200 - Present	148.08600 - Present	11.13500 - Present
BETHTEST123	12/5/2017					