

Update Notes

Update Summary

New Test Activation	4/19/2022	TGIWB - "Total Glutathione in Whole Blood"
Update Existing Test	3/29/2022	APCAR - "Activated Protein C Resistance Profile"
Update Existing Test	3/29/2022	APHF - "pH, Fecal"
Update Existing Test	3/29/2022	BCRMJ - BCR-ABL1 Major (p210) Rearrangement, Quantitative PCR
Update Existing Test	3/29/2022	BCRMN - BCR-ABL1 Minor (p190) Rearrangement, Quantitative PCR
Update Existing Test	3/29/2022	BCRX - BCR-ABL1 Rearrangement, Quantitative PCR with Reflex
Update Existing Test	3/29/2022	F2PM - "Prothrombin 20210A Mutation Analysis"
Update Existing Test	3/29/2022	F5LM - "Factor V Leiden Mutation Analysis"
Update Existing Test	3/29/2022	MBP - "Mannose Binding Lectin"
Update Existing Test	3/29/2022	MYO - "Myoglobin"
Update Existing Test	3/29/2022	OXA - "Oxalate, Plasma"
Update Existing Test	3/29/2022	PNPAB - "Paraneoplastic Autoantibody Evaluation, Serum"
Update Existing Test	3/29/2022	PRCAL - "Procalcitonin"
Update Existing Test	3/29/2022	RETBP - "Retinol Binding Protein"
Update Existing Test	3/29/2022	SELS - "Selenium"
Update Existing Test	3/29/2022	UWBAC - "Bacterial DNA Detection by PCR"
Update Existing Test	3/29/2022	UWFUN - "Fungal DNA Detection by PCR"
Update Existing Test	3/29/2022	UWNTM - "Non-TB Mycobacteria DNA Detection by PCR"
Inactivate Test With Replacement	4/4/2022	USC19 - "Synthetic Cannabinoid Metabolites - Expanded (Qual)" replaced by USC22 - "Synthetic Cannabinoid Metabolites - Expanded (Qual)"

New Test Activation			
Effective Date	4/19/2022		
Name	Total Glutathione in Whole Blood		
Code	TGIWB		
CPT Code(s)	82978		
Notes			
Specimen Requirements			
Specimen Required	<p><i>Collect:</i> Yellow ACD A or B</p> <p><i>Specimen Preparation:</i> Send 10.0 mL whole blood (Solution A volume: 8.5 mL; Solution B volume: 6.0 mL)</p> <p><i>Minimum Volume:</i> 1.0 mL from a fully drawn ACD solution A or B tube</p> <p><i>Transport Temperature:</i> Refrigerated</p>		
Rejection Criteria	Hemolyzed samples. Samples oversaturated with ACD solution.		
Stability	Room temperature: Unacceptable Refrigerated: 21 days Frozen: Unacceptable		
Performing Information			
Methodology	Kinetic		
Reference Range	373 - 838 uM		
Performed Days	Monday - Friday		
Turnaround Time	4 - 7 days		
Performing Laboratory	Quest SJC		
Interface Information			
Legacy Code¹	TGIWB		
Interface Order Code	3400636		
Result Code	Name	LOINC Code	AOE/Prompt²
3400636	Total Glutathione in Whole Blood	Not available	No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT
WX0000003039 M 12/05/1988 33 Y

Referral Testing

Collected: 03/29/2022 10:12 Received: 03/29/2022 10:12

<u>Test Name</u>	<u>Result</u>	<u>Flag</u>	<u>Ref-Ranges</u>	<u>Units</u>	<u>Site</u>
Total Glutathione in Whole Blood	455		373-838	uM	QCRL

The performance characteristics of the listed assay was validated by BioAgilytix Diagnostics. The US FDA has not approved or cleared this test. The results of this assay can be used for clinical diagnosis without FDA approval. BioAgilytix Diagnostics is a CLIA certified, CAP accredited laboratory for performing high complexity assays such as this one.

Test Performed at:
BioAgilytix Diagnostics
1320 Soldiers Field Road
Boston, MA 02135-1020 N Smith PhD, HCLD(ABB)

Performing Site:
QCRL: QUEST DIAGNOSTICS REFERENCE LAB CAPISTRANO 33608 Ortega Highway San Juan Capistrano CA 92675

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED

D529000001 Ordered By: CLIENT CLIENT
WX0000003039 WX00000000001595
Printed D&T: 03/29/22 10:12

William G. Finn, M.D. - Medical Director
Form: MM RL1
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Update Existing Test

Effective Date	3/29/2022
Name	Activated Protein C Resistance Profile
Code	APCAR
Interface Order Code	3619180
Legacy Code	APCAR
Notes	Updates to stability.

Required Testing Changes

Stability	Room temperature: 4 hours Refrigerated: Unacceptable Frozen (-20°C): 3 months Frozen (-70°C): 6 months
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Update Existing Test

Effective Date	3/29/2022
Name	pH, Fecal
Code	APHF
Interface Order Code	3621040
Legacy Code	APHF
Notes	Updates to stability.

Required Testing Changes

Stability	Room temperature: 1 hour Refrigerated: 14 days Frozen: 14 days
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Update Existing Test

Effective Date	3/29/2022
Name	BCR-ABL1 Major (p210) Rearrangement, Quantitative PCR
Code	BCRMJ
Interface Order Code	3000301
Legacy Code	BCRMJ
Notes	Updates to transport temperature and stability.

Required Testing Changes

Specimen Required	Transport Temperature: Refrigerated
Stability	Room temperature: 24 hours Refrigerated: 72 hours Frozen: Unacceptable

Update Existing Test

Effective Date	3/29/2022
Name	BCR-ABL1 Minor (p190) Rearrangement, Quantitative PCR
Code	BCRMN
Interface Order Code	3000286
Legacy Code	BCRMN
Notes	Updates to transport temperature and stability.

Required Testing Changes

Specimen Required	Transport Temperature: Refrigerated
Stability	Room temperature: 24 hours Refrigerated: 72 hours Frozen: Unacceptable

Update Existing Test

Effective Date	3/29/2022
Name	BCR-ABL1 Rearrangement, Quantitative PCR with Reflex
Code	BCRX
Interface Order Code	3000291
Legacy Code	BCRX
Notes	Updates to transport temperature and stability.

Required Testing Changes

Specimen Required	Transport Temperature: Refrigerated
Stability	Room temperature: 24 hours Refrigerated: 72 hours Frozen: Unacceptable

Update Existing Test	
Effective Date	3/29/2022
Name	Prothrombin 20210A Mutation Analysis
Code	F2PM
Interface Order Code	3000308
Legacy Code	F2PM
Notes	Updates to transport temperature and stability.
Required Testing Changes	
Specimen Required	Transport Temperature: Refrigerated
Stability	Room temperature: 3 days Refrigerated: 7 days Frozen: 30 days

Update Existing Test	
Effective Date	3/29/2022
Name	Factor V Leiden Mutation Analysis
Code	F5LM
Interface Order Code	3000306
Legacy Code	F5LM
Notes	Updates to transport temperature and stability.
Required Testing Changes	
Specimen Required	Transport Temperature: Refrigerated
Stability	Room temperature: 3 days Refrigerated: 7 days Frozen: 30 days

Update Existing Test			
Effective Date	3/29/2022		
Name	Mannose Binding Lectin		
Code	MBP		
Interface Order Code	3703880		
Legacy Code	MBPSP		
Notes	Updates to alternate specimen, stability and performing location.		
Required Testing Changes			
Alternate Specimen	Serum: Red top, green (lithium heparin)		
Stability	Room temperature: Unacceptable Refrigerated: Unacceptable Frozen: 1 year		
Performing Laboratory	ARUP Reference Laboratory		
Result Code	Name	LOINC Code	AOE/Prompt ²
3703880	Mannose Binding Lectin	30152-3	No

Update Existing Test			
Effective Date	3/29/2022		
Name	Myoglobin		
Code	MYO		
Interface Order Code	1000270		
Legacy Code	MYO		
Notes	Updates to stability.		
Required Testing Changes			
Stability	Room temperature: 8 days Refrigerated: 14 days Frozen: 1 year		

Update Existing Test	
Effective Date	3/29/2022
Name	Oxalate, Serum/Plasma
Code	OXA
Interface Order Code	3508310
Legacy Code	OXA
Notes	This test will now be sent to MAYO. See bolded information for changes.
Required Testing Changes	
Test Name	Oxalate, Plasma
Specimen Required	<p>Patient Preparation: Patient should be fasting for at least 12 hours prior to collection. Patient should avoid taking vitamin C supplements for 24 hours prior to collection.</p> <p>Collect: Green sodium heparin</p> <p>Specimen Preparation: After drawing specimen, immediately place green sodium heparin tube on wet ice. Centrifuge for 10 minutes 3500 rpm within 1 hour of collection. Use of a 4 degree °C refrigerated centrifuge is optimal but not required. Aliquot 5.0 mL plasma in screw capped plastic vial. Adjust the pH of the plasma specimen to a pH of 2.3-2.7 with approximately 10 mcL concentrated (12M) hydrochloric acid (or 20 mcL of 6M HCl) per 1 mL plasma. CRITICAL FROZEN.</p> <p>Minimum Volume: 2.0 mL</p> <p>Transport Temperature: Critical frozen</p>
Alternate Specimen	Nonacidified specimens can be accepted if the heparinized plasma is properly frozen. A disclaimer will be added in nonacidified plasma, "Sample was received nonacidified and frozen. In nonacidified samples oxalate values may increase spontaneously." Although there can be a small absolute increase of plasma oxalate in nonacidified specimens, this will not change the clinical interpretation.
Rejection Criteria	Sample collected in anything other than a green sodium heparin.
Stability	Room Temperature: Unacceptable Refrigerated: Unacceptable Frozen: 30 days
Methodology	Enzymatic
Reference Range	≤ 2.0 mcmol/L Reference values have not been established for patients younger than 18 years of age or older than 87 years of age.
Turnaround Time	5 – 9 days
Performed Days	Monday - Friday
Performing Laboratory	MAYO Clinic Laboratories

Update Existing Test	
Effective Date	3/29/2022
Name	Paraneoplastic Autoantibody Evaluation, Serum
Code	PNPAB
Interface Order Code	3512040
Legacy Code	PNPAB
Notes	CPT Code changes and changes to profile tests
Required Testing Changes	
CPT Code(s)	83519, 86596, 86255 x9, plus 83519 and/or 86255 and/or 86256 and/or 86341 and/or 84182 as appropriate, at additional cost.
Specimen Required	Ganglionic Acetylcholine Receptor (Alpha3) Autoantibody, Serum (GANG) will be removed from the profile.

Update Existing Test											
Effective Date	3/29/2022										
Name	Procalcitonin										
Code	PRCAL										
Interface Order Code	3689100										
Legacy Code	PROCALARP										
Notes	Updates to performing laboratory, specimen requirements, stability, methodology, reference range, TAT and performed days.										
Required Testing Changes											
Specimen Required	<p>Collect: Red top</p> <p>Specimen Preparation: Allow sample to clot 15-20 minutes. Centrifuge serum at 2000 rpm for 10 minutes and within 1 hour of collection, immediately transfer 2.0 mL serum into a screw capped plastic vial.</p> <p>Minimum Volume: 0.5 mL</p> <p>Transport Temperature: Frozen</p>										
Alternate Specimen	Plasma: Green lithium or sodium heparin, lavender EDTA										
Stability	<p>Room temperature: Unacceptable</p> <p>Refrigerated: 5 days</p> <p>Frozen: 28 days</p>										
Methodology	Immunofluorescence Assay (IFA)										
Reference Range	<table> <thead> <tr> <th>Ages</th> <th>ng/mL</th> </tr> </thead> <tbody> <tr> <td>At birth</td> <td><2.00</td> </tr> <tr> <td>18 – 20 hours</td> <td><20.00</td> </tr> <tr> <td>48 hours</td> <td><5.00</td> </tr> <tr> <td>>48 hours</td> <td><0.10</td> </tr> </tbody> </table>	Ages	ng/mL	At birth	<2.00	18 – 20 hours	<20.00	48 hours	<5.00	>48 hours	<0.10
Ages	ng/mL										
At birth	<2.00										
18 – 20 hours	<20.00										
48 hours	<5.00										
>48 hours	<0.10										
Turnaround Time	3 – 4 days										
Performed	Sunday – Friday										
Performing Laboratory	Quest SJC										

Update Existing Test	
Effective Date	3/29/2022
Name	Retinol Binding Protein
Code	RETBP
Interface Order Code	3681310
Legacy Code	RBPARP
Notes	Updates to stability
Required Testing Changes	
Stability	Room temperature: 4 hours Refrigerated: 7 days Frozen: 90 days

Update Existing Test	
Effective Date	3/29/2022
Name	Selenium
Code	SELS
Interface Order Code	3706520
Legacy Code	SELSP
Notes	Updates to accepted alternate specimens.
Required Testing Changes	
Alternate Specimen	Plasma: Dark blue EDTA, dark blue sodium heparin

Update Existing Test	
Effective Date	3/29/2022
Name	Broad Range PCR (Bacterial)
Code	UWBAC
Interface Order Code	3513820
Legacy Code	UWBAC
Notes	Update to test name.
Required Testing Changes	
Name	Bacterial DNA Detection by PCR

Update Existing Test	
Effective Date	3/29/2022
Name	Broad Range PCR (Fungal)
Code	UWFUN
Interface Order Code	3513830
Legacy Code	UWFUN
Notes	Updates to test name.
Required Testing Changes	
Name	Fungal DNA Detection by PCR

Update Existing Test	
Effective Date	3/29/2022
Name	Non-tuberuculosis mycobacteria PCR
Code	UWNTM
Interface Order Code	3500039
Legacy Code	UWNTM
Notes	Updates to test name.
Required Testing Changes	
Name	Non-TB Mycobacteria DNA Detection by PCR

Inactivate Test With Replacement	
Effective Date	4/4/2022
Inactivated Test	
Name	Synthetic Cannabinoid Metabolites - Expanded (Qual)
Code	USC19
Legacy Code¹	USC19
Interface Order Code	3300099
Notes	
Replacement Test	
Name	Synthetic Cannabinoid Metabolites - Expanded (Qual)
Code	USC22
CPT Code(s)	80352 (G0480)
Notes	
Specimen Requirements	
Specimen Required	<p><i>Collect:</i> Random Urine</p> <p><i>Specimen Preparation:</i> Send 3.0 mL random urine in a screw capped plastic container.</p> <p><i>Minimum Volume:</i> 1.2 mL</p> <p><i>Transport Temperature:</i> Refrigerated</p>
Stability	Room temperature: 30 days Refrigerated: 30 days Frozen: 30 days
Performing Information	
Methodology	High Performance Liquid Chromatography/Tandem Mass Spectrometry
Reference Range	See report
Performed Days	Varies
Turnaround Time	6 - 8 days
Performing Laboratory	NMS Labs

Interface Information			
Legacy Code ¹	USC22		
Interface Order Code	3300301		
Result Code	Name	LOINC Code	AOE/Prompt ²
3300302	5-fluoro-PINACA 3-methylbutanoic acid	Not available	No
3300303	4-fluoro-BINACA 3,3-dimethylbutanoic acid	Not available	No
3300304	5-fluoro-PICA 3,3-dimethylbutanoic acid	Not available	No
3300305	5-fluoro-PINACA 3,3-dimethylbutanoic acid	Not available	No
3300306	MDMB-4en-PINACA butanoic acid	Not available	No
3300307	FUBINACA 3-methylbutanoic acid	Not available	No
3300308	FUBINACA 3,3-dimethylbutanoic acid	Not available	No
3300309	4-carboxy-NA-PIM	Not available	No



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT
WX0000003039 M 12/05/1988 33 Y

Referral Testing

Collected: 03/29/2022 10:04 Received: 03/29/2022 10:04

Test Name Result Flag Ref-Ranges Units Site

Synthetic Cannabinoid Metabolites - Expanded (Qual)

5-fluoro-PINACA 3-methylbutanoic acid Positive ng/mL NMRL

Reporting Limit: 0.20 ng/mL
Synonym(s): 5F-AMB 3-methyl-butanoic acid; 5F-AMB M7
5-fluoro-PINACA 3-methylbutanoic acid
(5F-AMB 3-methyl-butanoic acid) is a known or presumed
metabolite of the following synthetic cannabinoid(s):
5-fluoro-MMB-PINACA (5-fluoro AMB);
5-fluoro-EMB-PINACA (5F-AEB).
It may also be a metabolite of other synthetic
cannabinoids with similar structures.
Analysis by High Performance Liquid Chromatography/
Tandem Mass Spectrometry (LC-MS/MS)

4-fluoro-BINACA 3,3-dimethylbutanoic acid Positive ng/mL NMRL

Reporting Limit: 0.20 ng/mL
Synonym(s): 4-fluoro-BUTINACA 3,3-dimethylbutanoic acid
Analysis by High Performance Liquid Chromatography/
Tandem Mass Spectrometry (LC-MS/MS)

5-fluoro-PICA 3,3-dimethylbutanoic acid Positive ng/mL NMRL

Reporting Limit: 0.50 ng/mL
Synonym(s): 5F-MDMB-PICA metabolite 7
5-fluoro-PICA 3,3-dimethylbutanoic acid is a
known or presumed metabolite of the following
synthetic cannabinoid(s): 5-fluoro-MDMB-PICA.
It may also be a metabolite of other synthetic
cannabinoids with similar structures.
Analysis by High Performance Liquid Chromatography/
Tandem Mass Spectrometry (LC-MS/MS)

5-fluoro-PINACA 3,3-dimethylbutanoic acid Positive ng/mL NMRL

Reporting Limit: 0.20 ng/mL
Synonym(s): 5F-ADB 3,3-dimethyl-butanoic acid
5-fluoro-PINACA 3,3-dimethylbutanoic acid
(5F-ADB 3,3-dimethyl-butanoic acid) is a known or
presumed metabolite of the following synthetic
cannabinoid(s): 5-fluoro-MDMB-PINACA (5F-ADB);
5-fluoro-EDMB-PINACA.
It may also be a metabolite of other synthetic
cannabinoids with similar structures.
Analysis by High Performance Liquid Chromatography/
Tandem Mass Spectrometry (LC-MS/MS)

MDMB-4en-PINACA butanoic acid Positive ng/mL NMRL

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT
WX0000003039 M 12/05/1988 33 Y

Referral Testing

Collected: 03/29/2022 10:04 Received: 03/29/2022 10:04

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Contains three rows of test results for FUBINACA 3-methylbutanoic acid, FUBINACA 3,3-dimethylbutanoic acid, and 4-carboxy-NA-PIM, each with detailed reporting limits and analysis methods.

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED

D529000000 Ordered By: CLIENT CLIENT
WX0000003039 WX00000000001595
Printed D&T: 03/29/22 10:08

William G. Finn, M.D. - Medical Director
Form: MM RL1
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LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT
WX0000003039 M 12/05/1988 33 Y

Referral Testing

Collected: 03/29/2022 10:04 Received: 03/29/2022 10:04

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Contains detailed test information for High Performance Liquid Chromatography/Tandem Mass Spectrometry (LC-MS/MS).

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED

D529000000 Ordered By: CLIENT CLIENT
WX0000003039 WX00000000001595
Printed D&T: 03/29/22 10:08

William G. Finn, M.D. - Medical Director
Form: MM RL1
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