Warde Medical Laboratory

LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003826 F 12/05/1988 34 Y

Referral Testing

Collected: 10/20/2023 12:10 Received: 10/20/2023 12:10

Test Name	Result	Flag	Ref-Ranges	Units	Site
Phosphatidylethanol (PEth), WB, Quantitative					
PEth 16:0/18:1 (POPEth)	46			ng/mL	ARRL

```
PEth 16:0/18:1 (POPEth)
Less than 10 ng/mL.....Not detected
Less than 20 ng/mL.....Abstinence or light alcohol
consumption
20 - 200 ng/mL.....Moderate alcohol consumption
Greater than 200 ng/mL.....Heavy alcohol consumption or
chronic alcohol use

(Reference: W. Ulwelling and K Smith 2018 J. Forensic Sci)
```

Reported Date: 2023.10.20 -:1

PEth 16:0/18:2 (PLPEth)	48			ng/mL	ARRL

```
Reference ranges are not well established.
```

Reported Date: 2023.10.20 -:1

EER_Phosphatidylethanol	See Note				ARRL

Reported Date: 2023.10.20 -:1

PEth Interpretation	See Note				ARRL

```
Phosphatidylethanol (PEth) is a group of phospholipids
formed in the presence of ethanol, phospholipase D and
phosphatidylcholine. PEth is known to be a direct alcohol
biomarker. The predominant PEth homologues are PEth
16:0/18:1 (POPEth) and PEth 16:0/18:2 (PLPEth), which
account for 37-46% and 26-28% of the total PEth homologues,
respectively. PEth is incorporated into the phospholipid
membrane of red blood cells and has a general half-life of
4-10 days and a window of detection of 2-4 weeks. However,
the window of detection is longer in individuals who
chronically or excessively consume alcohol. The limit of
quantification is 10 ng/mL. Serial monitoring of PEth may
be helpful in monitoring alcohol abstinence over time. PEth
results should be interpreted in the context of the
patient's clinical and behavioral history.
Patients with advanced liver disease may have falsely
elevated PEth concentrations (Nguyen VL et al 2018,
Alcoholism Clinical & Experimental Research).
```

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

F420000017
WX0000003826
Printed D&T: 10/20/23 12:11

Ordered By: KAJAL SITWALA, MD, PhD
WX00000000002353

Kajal V. Sitwala, MD, PhD - Medical Director
Form: MM RL1

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This test was developed and its performance characteristics
determined by ARUP Laboratories. It has not been cleared or
approved by the U.S. Food and Drug Administration. This
test was performed in a CLIA-certified laboratory and is
intended for clinical purposes.
Performed By: ARUP Laboratories
500 Chipeta Way
Salt Lake City, UT 84108
Laboratory Director: Jonathan R. Genzen, MD, PhD
CLIA Number: 46D0523979

Reported Date: 2023.10.20 12:11 PETHQ

Performing Site:
ARRL: ARUP REFERENCE LAB 500 Chipeta Way Salt Lake City UT 841081221

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

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