

Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB: 12/31/1998
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 01/01/2017 12:34

Phosphatidylethanol (PEth), Whole Blood, Quantitative

ARUP test code 3002598

PEth 16:0/18:1 (POPEth)

<10 ng/mL

INTERPRETIVE INFORMATION: Phosphatidylethanol (PEth), whole Blood

Phosphatidylethanol (PEth) homologues	Result Interpretation
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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

PEth 16:0/18.2 (PLPEth).....Reference ranges are not well established.

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

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 patients clinical and behavioral history. Patients with advanced liver disease may have falsely elevated PEth concentrations (Nguyen VL et al 2018, Alcoholism Clinical & Experimental Research).

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS

PEth 16:0/18:2 (PLPEth)

<10 ng/mL

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 20-147-121626
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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4848

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
PEth 16:0/18:1 (POPEth)	20-147-121626	5/26/2020 4:42:00 PM	5/26/2020 4:42:51 PM	5/26/2020 4:46:00 PM
PEth 16:0/18:2 (PLPEth)	20-147-121626	5/26/2020 4:42:00 PM	5/26/2020 4:42:51 PM	5/26/2020 4:46:00 PM

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

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