

Abstract

Ethanol and phosphatidylethanol, a fantastic story!

Journe B. médecin addictologue, Directeur de « La Santé se Mesure » Paris

Sadeg N. pharmacien biologiste, expert, Directeur Laboratoire IMITOX, Chambly

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Ethanol is properly a dual product and offers even more features. Phosphatidylethanol (PEth) reveals the hidden faces of the biochemical life of cells when they meet with ethanol.

PEth is easy to detect and to quantify using the appropriate technologies. We developed technologies to make it available wherever and whenever a proof is requested. The measure of PEth says with certitude whether the person took alcohol or not within the course of the past month. It allows to quantify the amount of alcohol consumed in the past week.

Ethanol is complex. Produced by anaerobic yeast fermentation, over 15° (alcoholic degrees), it becomes bactericide and sterilizes its native surrounding. Ethanol is totally soluble in water, ethanol looks like water, ethanol has ambiguous aspect for the eyes, for the skin and the digestive tract. Water as ethanol is absorbed and reaches all the cells within a few minutes. Ethanol confuses biology and mind.

Ethanol includes a very high level of energy. This energy blows the biology, all cells and tissues are concerned. There is no clear limit between light intoxication and breakdown.

Phosphatidylethanol (PEth) enlightens the biological pathway of alcohol through the cells.

PEth is an anaerobic metabolite of ethanol among several others (phosphatidylethanol, ethyl-glucuronide, ethyl-sulfates, and ethyl-ester of fatty acids). Every cell and every membrane are concerned. These metabolites remain in the cells for a long time.

A fantastic detail, PEth is synthesized by phospholipase-D, when phospholipase-D meets ethanol the affinity for alcohol is 100 to 1000 time higher than for water. Normally, when phospholipase-D of the cell membrane meets water, it hydrolyzes phosphatidylcholine to acetylcholine (major elements of energy and communication of cells physiology).

The anaerobic metabolism of ethanol is as discreet as it is rich in perspective to bring major information about the complex relation we have with this product.

Contact : Docteur Journe brunojourne@me.com 06 03 89 89 79