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Methyl esters... Highly toxic, and worthless 12/16/2007

I invite ANY company rep, to join this thread (especially if they feel that the use of methyl esters over ethyl esters, is justifiable).

So why are methyl esters inferior? From a molecular standpoint, they are less stable in aqueous solution (e.g. the shorter the carbon chain, the more hydrophilic the molecule, thereby making it easier for ionic reactions to take place).

Now here's where things get interesting....

Methanol Pharmacokinetics

Rapidly absorbed (oral, respiratory, or dermal).

Rapidly distributed.

Metabolized to the toxic products, formaldehyde, and formic acid.

Half-life: 2-24 hours (mild intoxication), 24-30 hours (severe intoxication) [9].

Methanol Toxicity

The documented, toxic doses for methanol are as follows:

2 grams/optical nerve damage

10 grams/permanent blindness

100+grams/death [7,8].

Methanol poisoning is attributed to the generation of formate, a product of methanol metabolism [1-4]. The two major physiological effects of formate are optical disk edema, and metabolic acidosis, leading to blindness and/or death [1, 5, 6].

Initially methanol poisoning causes nausea, abdominal pain, lethargy, confusion. Severe poisoning progresses to anion-gap, metabolic acidosis, coma, seizure, and respiratory/circulatory failure. Lactic acid accumulation is sometimes found in methanol poisoned patients, due to methanol-induced hypotension [9].

Regardless of opinion, the fact that methanol is highly toxic, and ethanol is not.... makes the inclusion of this garbage in our supplements, a very poor choice.

Methyl ester products:

MuscleTech NaNO Vapor = L-Leucine Methyl Ester HCL, L-Isoleucine Methyl Ester HCL

MuscleTech Nitro-Tech Hardcore = Glutamine Methyl Ester, L-Leucine Methyl Ester HCL,

MuscleTech Anator P70 = L-Leucine Methyl Ester, L-Alanine Methyl Ester

MuscleTech Nitro-Tech Hardcore = Glutamine Methyl Ester, L-Leucine Methyl Ester HCL

Neogenix Voluplex = Creatine Methyl Ester HCL 500 mg

KiloSports C-4 Decanoate = Creatine Methyl Ester

Muscle Asylum Project Arson = Gamma-Butyrobetaine Methyl Ester

Iron-Tek 2 Methyl 13-C Caps = Creatine Methyl Ester HCL 1g

Iron-Tech Methyl Speed

MuscleTech Nitro-Tech Bars = Phenylalanine Methyl Ester HCL, L-Glutamine Methyl Ester, L-Leucine Methyl Ester HCL

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