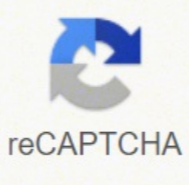


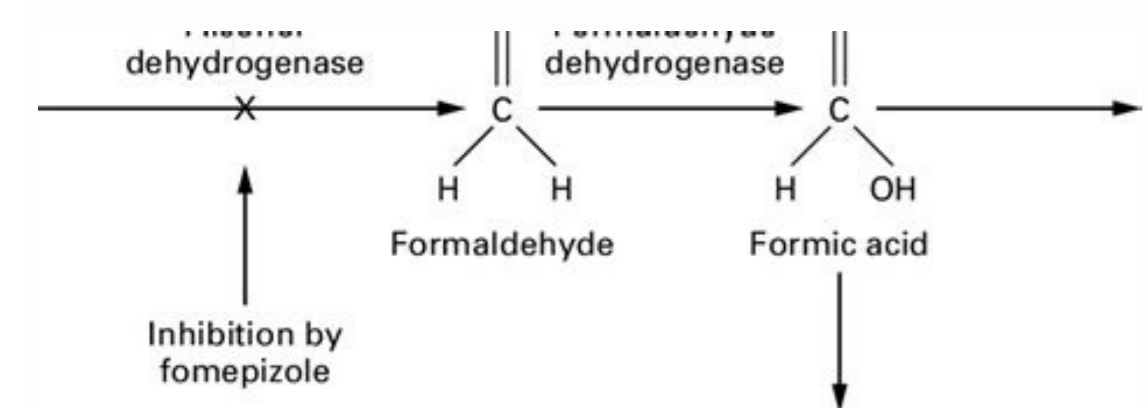


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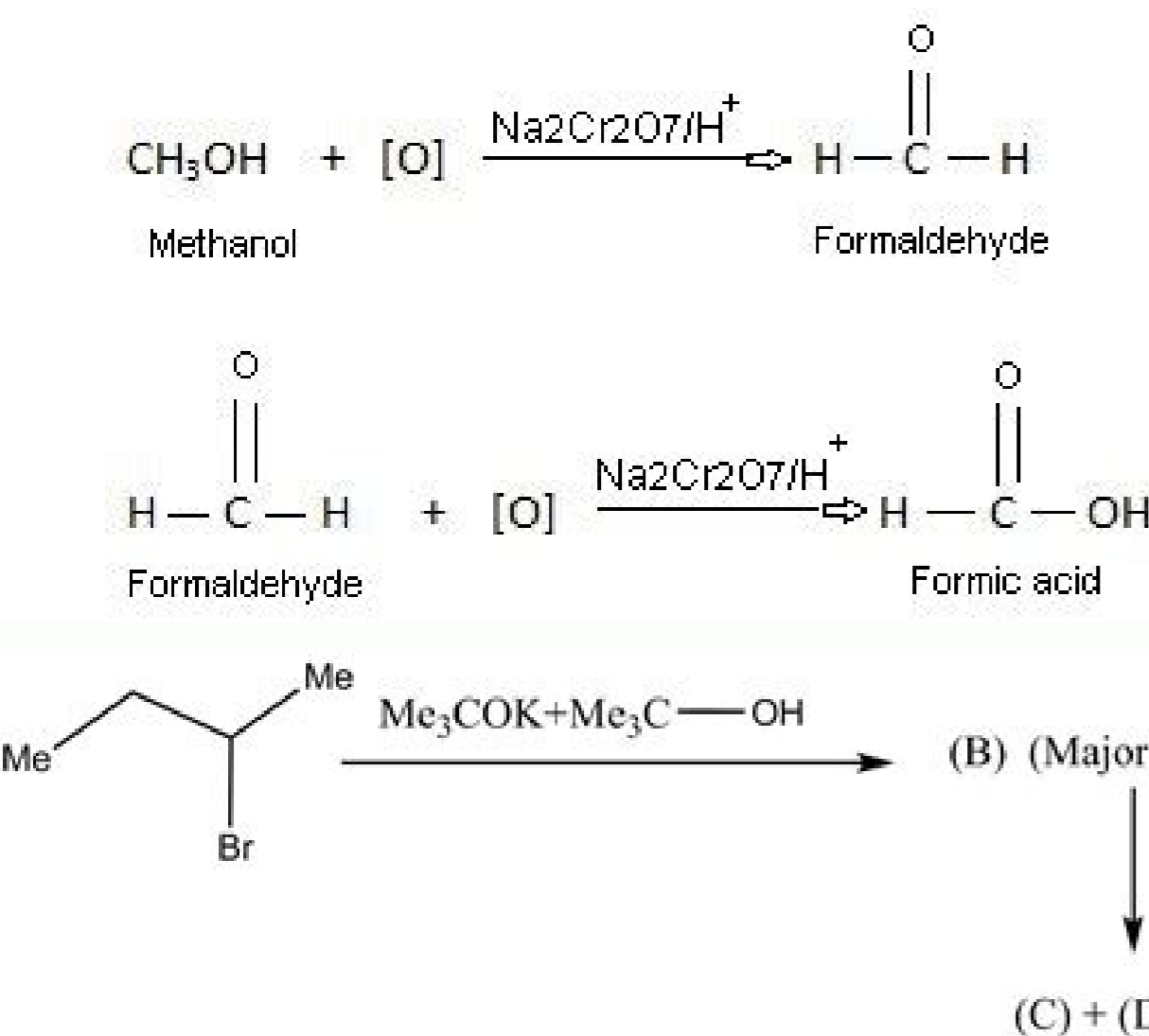
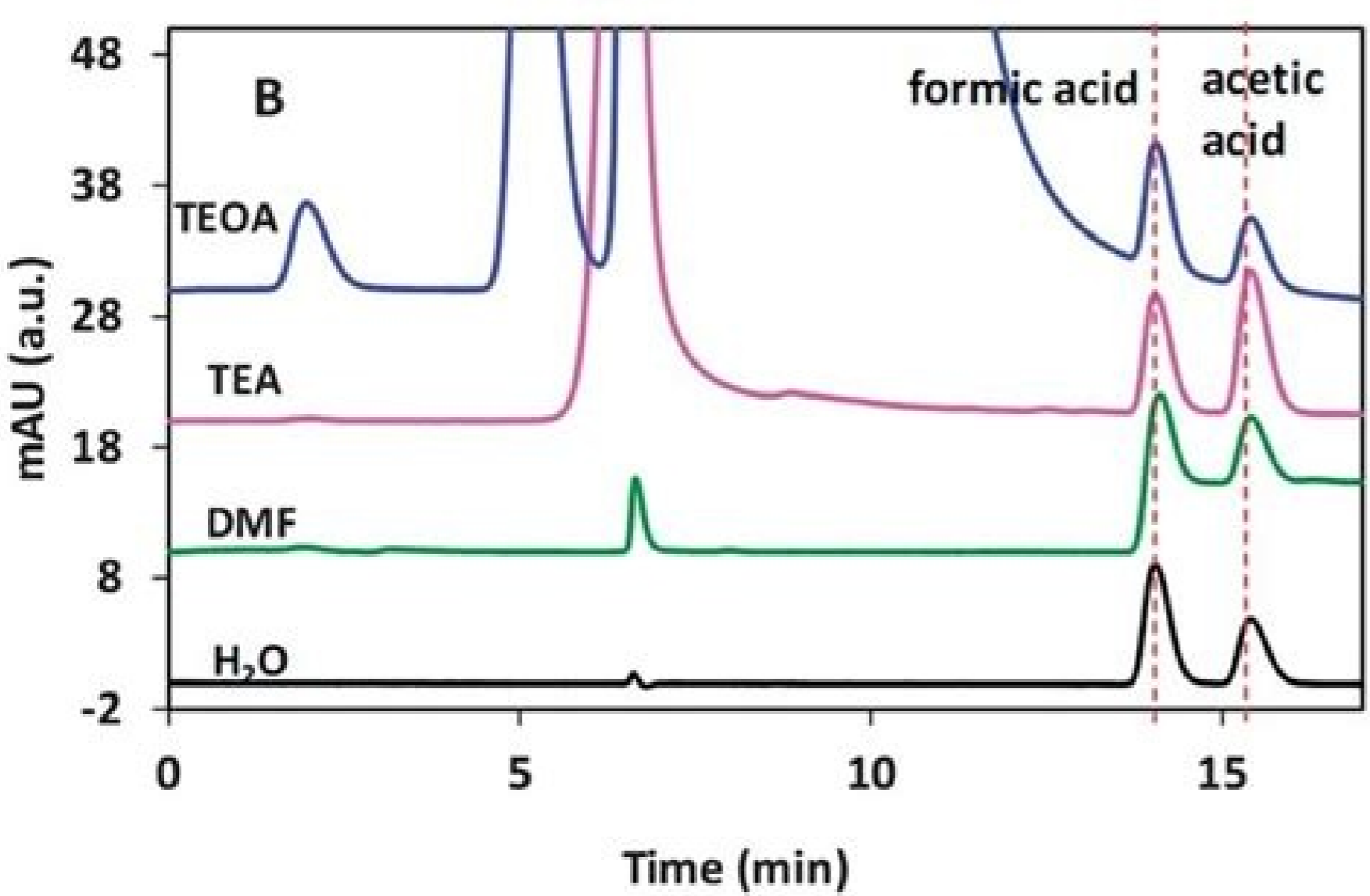
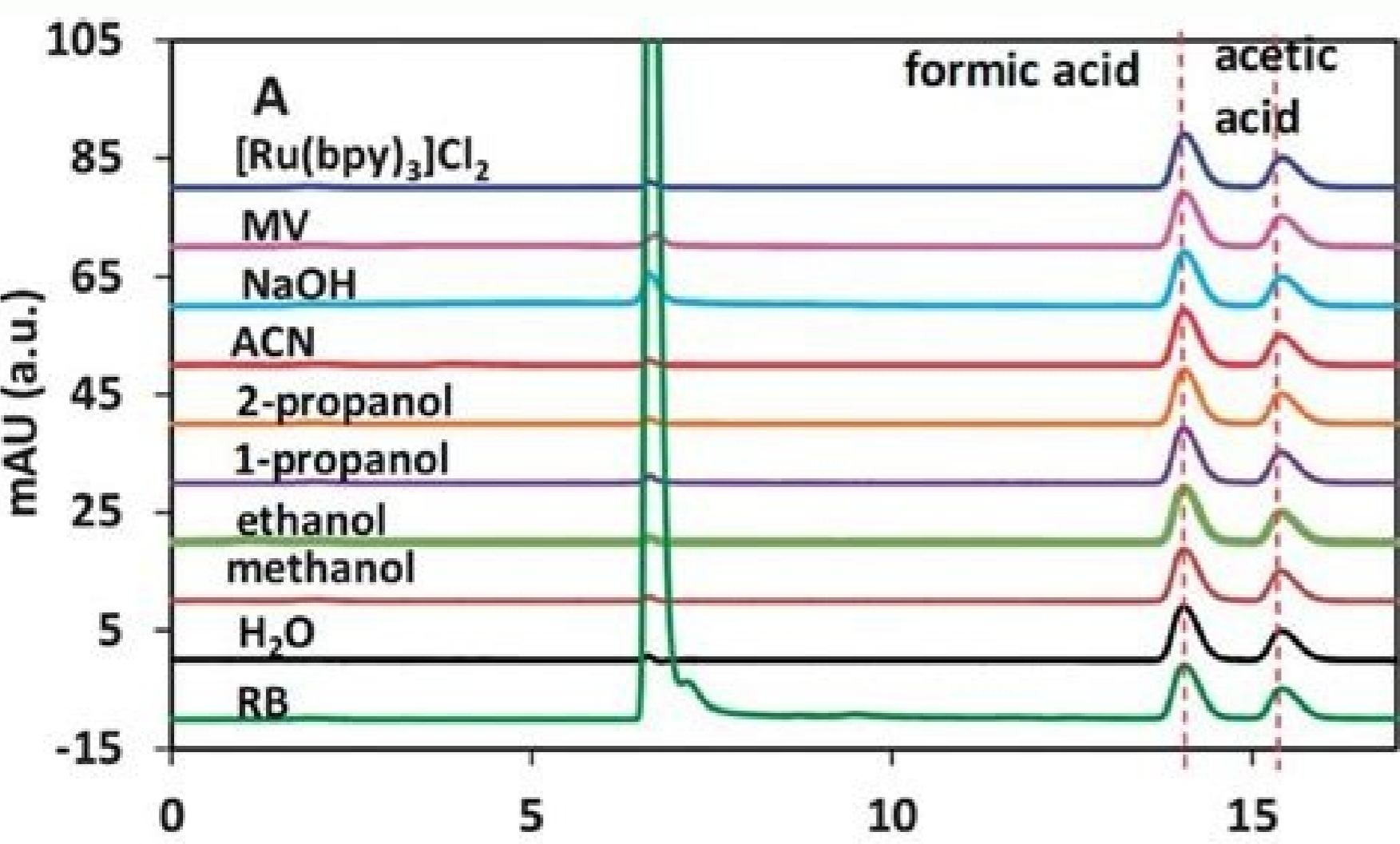


**Open**

# Methanol and formic acid



Metabolization  
 Methanol → Formaldehyde → Formic Acid  
 Performed by Alcohol Dehydrogenase and Formaldehyde Dehydrogenase in Liver.



Transformation of carbon dioxide to formic acid and methanol. Methanol and formic acid reaction. Methanol and formic acid methyl formate. Methanol and formic acid toxicity biochemical mechanisms. Methanol and formic acid reduction. Distinguish between formic acid and methanol. Reaction between formic acid and methanol. Methanol and formic acid toxicity.

The comparison of the value of OS1 between groups B and C was statistically significant. This is an open access article distributed under the Creative Commons Attribution license, which allows unlimited use, distribution and reproduction in any medium, provided the original work is correctly quoted. Sprague-Dawley rats were divided into 3- and 7-day groups and a control. Initially, the animals were randomly classified in control group (A), 3-day group (B) and 7-day group (C) with 10 rats per group. After sufficient dilation, the corneal surface was anesthetized with tetracaine hydrochloride. The reason for this A was due to a different method to measure Wavelet ops for Garner and Lee. GY2013Z-1. Copyright © 2016 Dong-Mei Liu et al. Group B IPI1 and Group C IPI1-4 were wider than the control group and Group B IPI1-4 and Group B Et were wider than Group C. Previous research, focused on sensitivity OPS chemistry, suggested that subsequent ethanol-sensitive PIAs of previous ones [19], which could be an anastomotic explanation for our results. Garner and Lee found that all OPS amplitudes reduced unspecified and delayed latencies after acute methanol intoxication [6]. The ET of OPS in the 7-day intoxication group A was more delayed than the 3-day group, which was not found in other erg responses. OP amplitudes measured in mercury vapor exposure patients were much smaller than those for O2 and O3 [10]. In this current study, we found that OPS responses were affected after methanol intoxication. The summed amplitudes of potential oscillators (OPS) of groups B and C decreased and the time elapsed late. The other possible reason behind the Acotopic and photopic ERGs reflect the entire retinal function, are less sensitive than ops, and cannot respond to subtle changes in retinal function. Both scotopic and photopic retinas were impaired by methanol and impairment was more serious in the 7-day than in the 3-day group. All poisoned rats showed a typical toxic condition. OPS, especially later OPS and IPI2, were more sensitive to methanol intoxication than other electroretinogram subcomponents. 1. Introduction Methanol is a colorless and highly toxic organic solvent and is commonly used in industry. Methods. Our laboratory had successfully detected methanol concentrations from methanol poisoning serum [5]. Concentrations of methanol and formic acid were detected by GC/MS and HPLC, respectively. Tissues were placed in a tube and shaken in a FastPrep-24 instrument (MP Biomedicals, LLC, Solon, OH, USA) for 1-2 min. Our previous research showed that a-wave and b-wave were greatly destroyed upon methanol intoxication [5]. Then, 100% blood was sufficiently mixed with the mobile phase and centrifuged at 10000 rpm for 10 min. [7] but different from Garner and Lee [6]. Methanol concentrations were calculated from a standard curve produced using GC/MS results from a series of known concentrations of chromatographic grade methanol. 2.4. Formic Acid Concentration from Blood Analysis The determinations of formic acid concentration were performed on Thermo U3000 HPLC (Thermo Fisher Scientific Inc., Waltham, MA, USA). Compared with other electroretinogram subcomponents, OPS, especially later OPS and IPI2 were more sensitive to methanol intoxication. Competing Interests The authors declare that they have no competing interests. Acknowledgments This study was supported by project grants from the Shanghai Science and Technology Commission (Grant no. ERG recordings of Group B were performed 72 h (7 days) later after methanol treatment and those of group C were performed 168 h (7 days) later. The reductions of SAOP and delays of ET were confirmed in both two methanol-treated groups indicating the damage of neurosensory retinal cell function. Subsequently, it is metabolized to la te caizalP yb stropet htiw tmetisnoe saw hcihw ,noitacixotni lonahem retfa egamad ot elbarenluv erom erew stelevaw sPO rectal taht detacidni siht ,flesti lonahem naht rehtar noitalumuca dica cimrof ot eud ylibissop erom saw puory yad-7 eht ni noitcnuf laniter fo noitaroireded ,doob ni snoitartnecnoc dica cic cimrof dna lonahem ht htiw denibmoC.ginostop lonahem retfa segnahc lanotcnuf laniter ot evitissnes erom neeb evah thgim 2IPI taht gnitacidni ,sIPI dezylana rehto eht naht regnol eb ot dnuof saw ,3SO dna 2SO fo skeap tneacajda newteb lavretni eht rof sdnats hcihw ,2IPI ,revoeroM ,dne sAA nu deunitnoc erutxim sag eht dna enilas ro lonahem fo noitartsinimda efofeh h . A itnepot eht erolpxe oT .snoitartnecnoc dica cimrof latnemirepxe ezyzana ot dehsilbatse saw ) ; ( alumrof evruc dradnats a ,ylralimiSCLPH gnisU noitanimreteD dica cimroF .2.3.50.0

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