

**E113**

*Carassius auratus* Liver-Tissue Based Biosensor for  
the Determination of Hydrogen Peroxide

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An amperometric sensor for hydrogen peroxide has been made by immobilizing *Carassius auratus* liver tissues in carbon paste. A very short response time(4-5seconds) and a relatively large usable pH range(5.0~7.8) were  $2.53 \times 10^{-5}$ M hydrogen peroxide. The *Carassius auratus* liver tissue electrode offered high biocatalytic stability and activity and extremely low cost. The electrode had a useful lifetime is 15days.

**E114**

**Effects of Isonicotinic acid hydrazide on Levels  
of Acetylcholinesterase Activity and Some  
Metabolites in Various Tissues of Quail**

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The effect of isonicotinic acid hydrazide(INH) on levels of acetylcholinesterase activity in various tissues and of some metabolites in the serum of quail has been investigated. The drug INH didn't affect the body and organ weights but lowered the level of soluble proteins in pectoral muscle. The specific activity of acetylcholinesterase in pectoral muscle was significantly reduced( $P < 0.05$ ) but that in other tissues remained unchanged. Among metabolites tested in the serum only cholesterol level was significantly increased. Both SGOT and SGPT activities were significantly increased but other enzyme activities were not affected.