

**MULTILAYER ANALYTICAL ELEMENT CONTAINING PRIMARY AMINE
BUFFER AND METHOD FOR THE DETERMINATION OF ETHANOL**

Abstract

A multilayer analytical element has been
5 prepared for accurate and rapid colorimetric
determination of ethanol in aqueous specimens using
alcohol dehydrogenase and an oxidized nicotinamide
coenzyme. The element includes three reagent layers
beneath a porous spreading layer. The middle reagent
10 layer has a crosslinked hydrophilic binder, while the
other two reagent layers have uncrosslinked binders.
In addition, both uncrosslinked reagent layers
include a relatively high amount of a buffer having a
primary amine, which buffer maintains the layer pH at
15 from 8 to 10. Alcohol dehydrogenase is in the
reagent layer next to the porous spreading layer.