LC Technical Note

LT017 GL Sciences Inc.

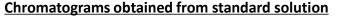
Analysis of Formaldehyde in Drinking Water by HPLC and Post-column Derivatization

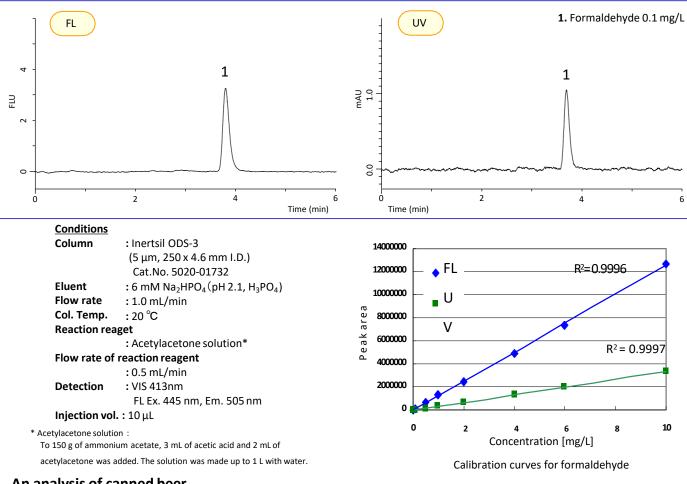
Formaldehyde is widely known as a toxic chemical, and the guideline value of 0.9 mg/L for its content in drinking water has been established by WHO. This note describes a determination method for formaldehyde in beer using HPLC equipped with a post-column derivatization system.

Formaldehyde in injected solution is separated from other compounds in the ODS column, reacted with

acetylacetone solution, and converted to fluorescent 3,5diacetyl-1,4-dihydrolutidine.

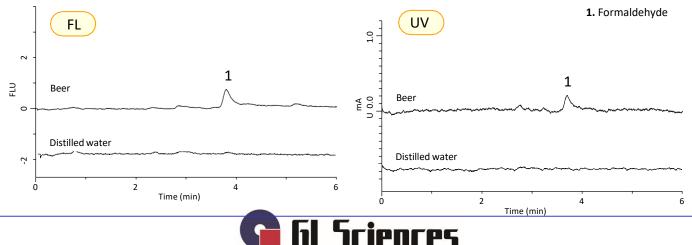
Concentration of one-tenth of the guideline value of formaldehyde was determined with a UV/VIS detector in the HPLC system. Furthermore, florescence (FL) detector provided even higher sensitivity.

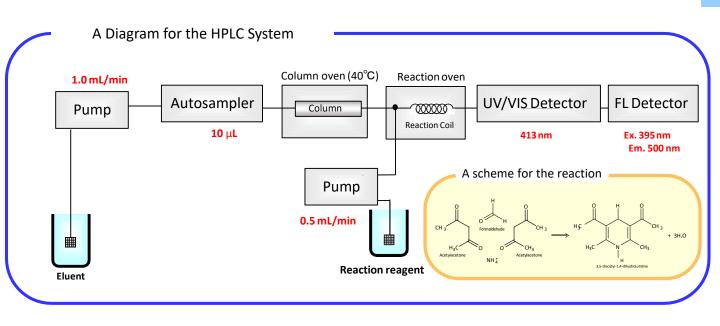




An analysis of canned beer

Commercially available canned beer was filtrated with 0.45 μm membrane filter and injected into the HPLC system.





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