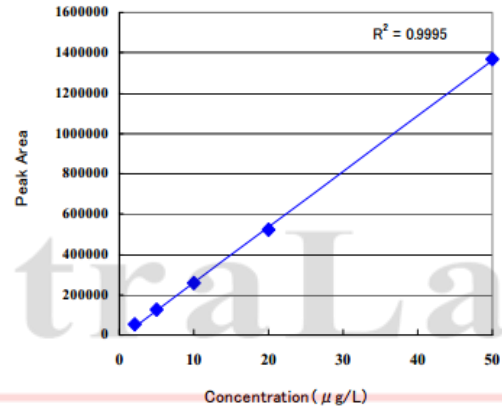
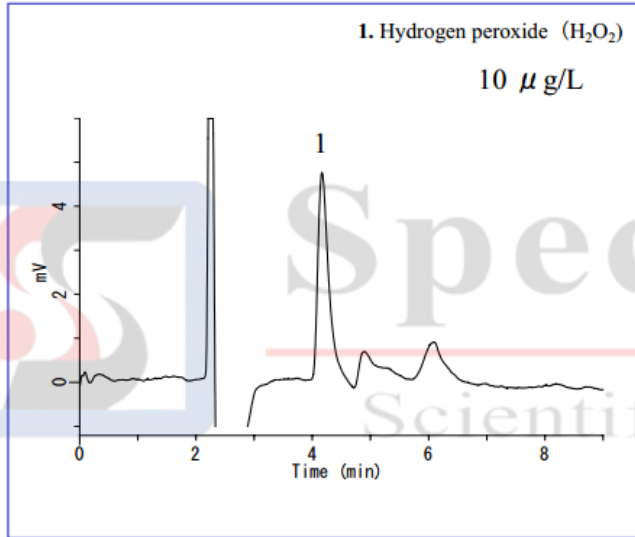


Analysis of Hydrogen Peroxide (H₂O₂) by HPLC-ECD

Instrument: [Waters Alliance 2695 HPLC system with ECD detector](#)

Column: GL Inertsil CX 5 μ 4.6x250mm

A chromatogram obtained from standard solution



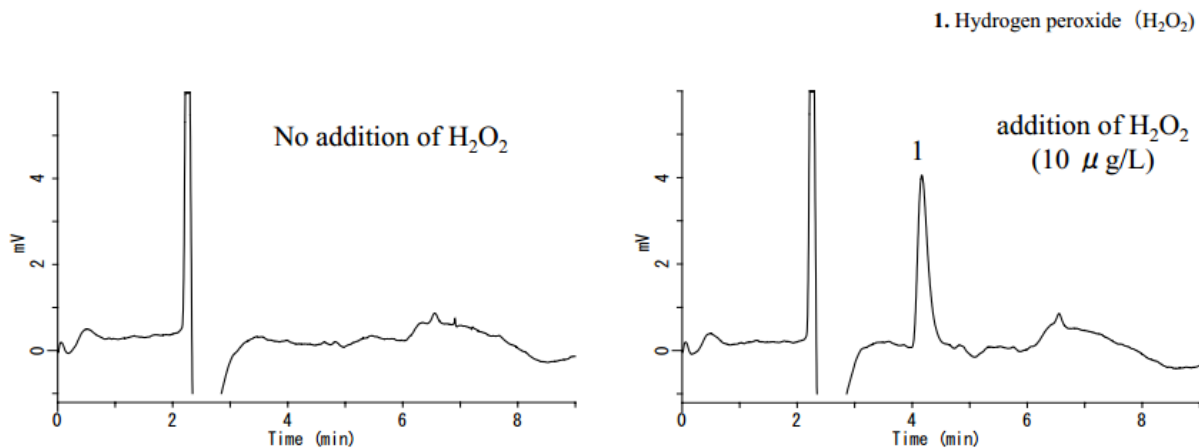
The calibration curve of H₂O₂

HPLC conditions

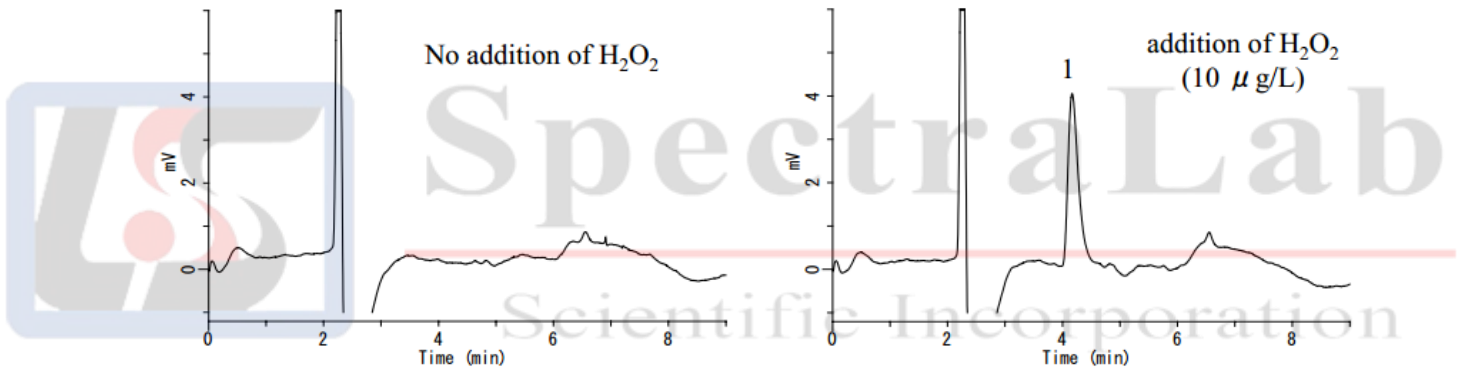
Column : Inertsil CX (5 μ m, 250 \times 4.6 mm I.D.)
Flow rate : 0.8 mL/min
Detection : ECD
Injection volume : 100 μ L

This note describes a determination method of hydrogen peroxide (H₂O₂) using HPLC-ECD (high performance liquid chromatography-electrochemical detection) system.

H₂O₂ is used for various purpose, such as disinfectant, oxidizing agent, and rinse solution. Determination of H₂O₂ is required also for evaluation of fuel cells. Simple determination method for H₂O₂ was often performed by titration or voltammetry.



1. Hydrogen peroxide (H₂O₂)



Reference: http://www.cromatec.com.br/aplicacoes/gl_sciences/hplc/GL_Analysis_of_H2O2_by_HPLC-ECD.pdf