Determination of taurine in health drink

Taurine in a energy drink was analyzed by HPLC. Fig.1 shows the chromatogram obtained by injecting 10ul of an authentic sample of taurine of 1000mg/l. Fig.2 shows the chromatogram obtained by injecting 10ul of the energy drink. These results indicate that 100ml of the energy drink contained 992mg of taurine.

Fig.1

Fig.2

Conditions:
Pump: PU-980
Detector: 830-R1
Sensitivity: 32 x 10^{-3} RIUFS
Column: Shodex Ionpak KC-811
Eluent: 0.1% H3PO4
Flow rate: 1.0ml/min
Temperature: 60 degree celsius
Sample: Taurine
Tonic