

A Non-hazardous Technique to Determine Penicillin G and Penicillin G Procaine in Beef

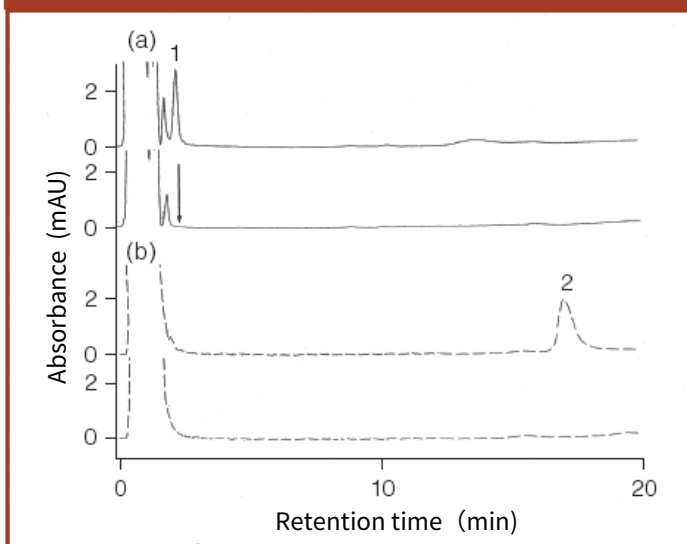
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Figure 1: Chromatograms obtained from the HPLC system. PDA detector set at (a) 205 nm or (b) 290 nm. Upper profile: a beef (cattle muscle) sample spiked with the target compounds (0.2 µg/g). Lower profile: (a) a blank beef sample. Peaks: PG (Retention time) = 2.4 min; 2= PGp (17.3 min). An arrow in (a) lower profile indicates the peak of PG.



Conditions

Column
Column Cat. No.
Eluent

: Inertsil WP 300 C4 (5 µm, 100 x 4.6 mm I.D.)
: 5020-05894
: A) 0.04 mol/L phosphoric acid (pH 7.0)
: B) Ethanol
: A/B = 8/2, v/v

Flow Rate
Col. Temp.
Detection
Injection Vol.
Sample
Analyte

: 1.0 mL/min
: 40 °C
: PDA 190-350 nm (detected at 205 and 290 nm)
: 20 µL
: beef
: 1. Penicillin G (PG)
: 2. PG procaine (PGp)

URL

: <http://chromatographyonline.findanalytichem.com/lcgc/article/articleDetail.jsp?id=610621&pageID=1&sk=&date=> (last access date: Jan. 6, 2010)