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Authors: Cui Li, Chen Zang, Qixia Nie, Bo Yang, Baoxian Zhang, Shaofeng Duan



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Simultaneous determination of seven flavonoids, two phenolic acids and two cholesterines in Tanreqing injection by UHPLC-MS/MS

Cui Li^{1,2}, Chen Zang², Qixia Nie², Bo Yang¹, Baoxian Zhang², Shaofeng Duan^{1, 3*}

1. Institute for innovative drug design and evaluation, School of Pharmacy, Henan University, N. Jinming Ave., Kaifeng, Henan 475004, China

2. Institute of Chinese Material Medica, China Academy of Chinese Medical Sciences, Beijing, 100102, China.

3. Henan International Joint Laboratory for Nuclear Protein Regulation, School of Medical Sciences, Henan University, N. Jinming Ave., Kaifeng, Henan 475004, China.

Correspondence to: Shaofeng Duan, sduan@henu.edu.cn

Highlights

- The established method was able to simultaneously determine the three major categories of eleven drugs (major bioactive constituents) in Tanreqing injection (TRQI).
- The determination time of the active ingredients of each sample was reduced to 15min without switching the ion source polarity.
- The method was applied for the determination of the eleven active components in ten batches of Tanreqing injection. The results showed that the quality control level of this Chinese patent drug was highly improved.

Abstract

A new ultra-high performance liquid chromatography combined with triple quadrupole mass spectrometry was developed to evaluate the quality of Tanreqing injection. Seven flavonoids (Rutin, Baicalin, Scutellarin, Chrysin-7-O-Beta-D-glucoronide, Oroxylin A-7-O- β -D-glucoronide, Wogonin, Luteolin-7-O-glucoside), two phenolic acids (Chlorogenic acid, Caffeic acid) and two cholesterines (Ursodeoxycholic acid, Chenodeoxycholic acid) in Tanreqing injection could be measured simultaneously. For the determination of the eleven compounds, the

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