

Electronic Supplementary Information

Structural Characterization and Thermally Induced Isomerization Investigation of *Cis*- and *Trans*-vitamin K₁ Using Ion Mobility Mass Spectrometry

Peng Xiao, Hong-Mei Li,* Ming Li, De-Wei Song, Xiao-Min Li, Xin-Hua Dai and Zhi-Shang Hu

Division of Chemical Metrology and Analytical Science, National Institute of Metrology, Beijing 100029, P.R. China

*Correspondence to: Prof Hong-Mei Li, Division of Chemical Metrology and Analytical Science, National Institute of Metrology, Beijing 100029, P.R. China; E-mail: lihm@nim.ac.cn; Fax: +86-10-64271639; Tel: +86-10-64228896

Number of Pages: 3

Number of Figures: 4

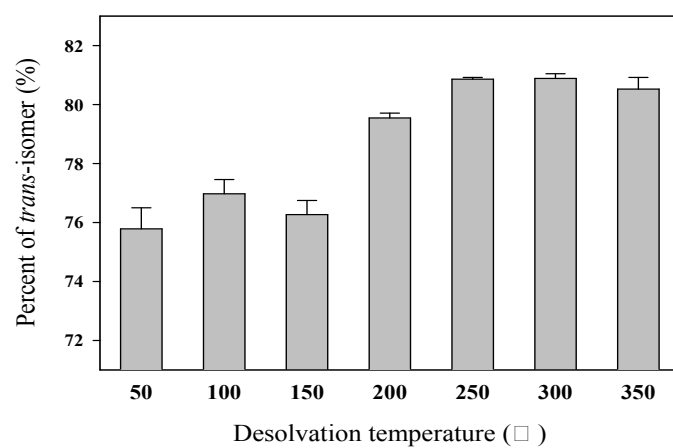


Fig. S1 Percentages of *trans*-vitamin K₁ under different desolvation temperature using ESI ion source

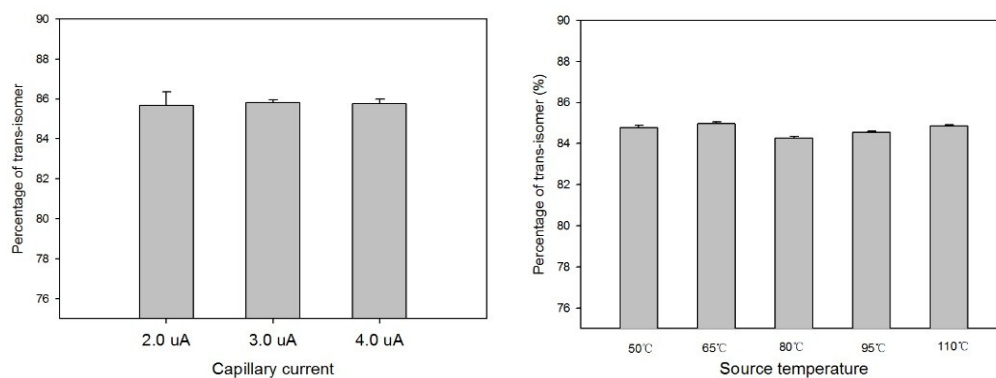


Fig. S2 Percentages of *trans*-vitamin K₁ obtained from different capillary current or source temperature using APCI ion source. (n=3)

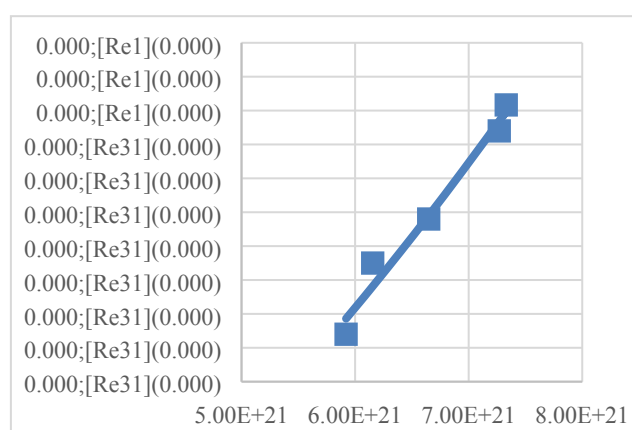
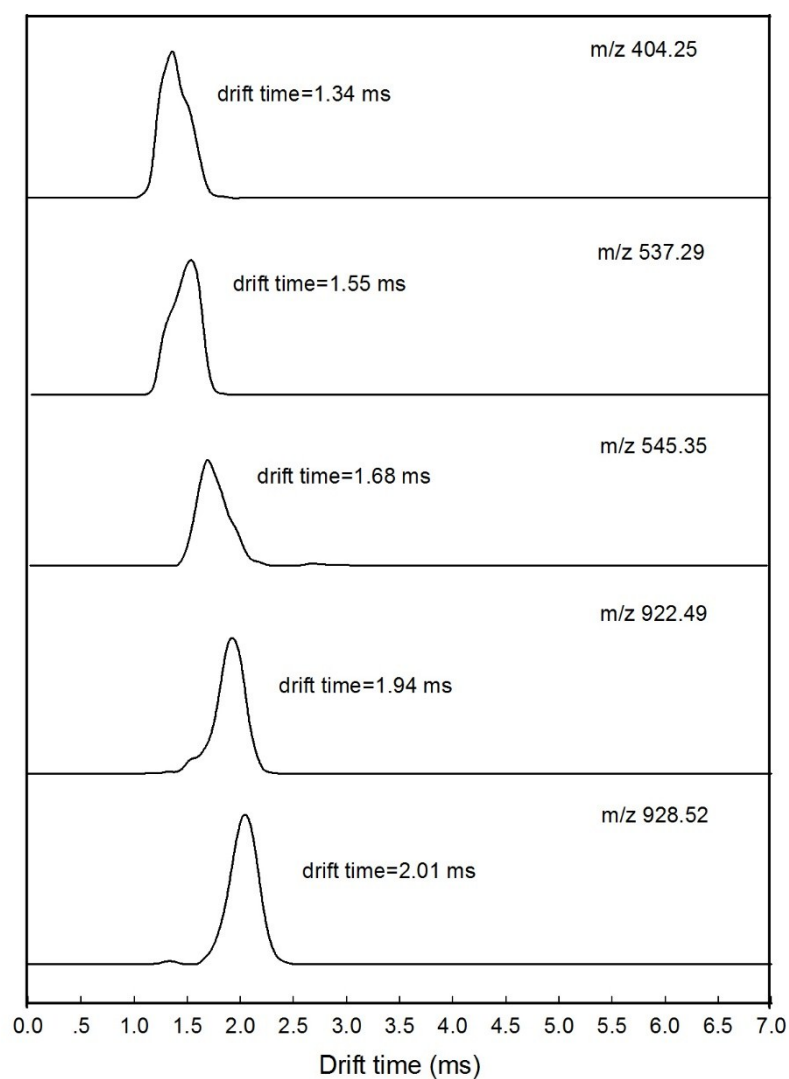


Fig. S3 Drift times and CCSs calibration curve obtained from bovine serum albumin (BSA) peptides ($n=3$)

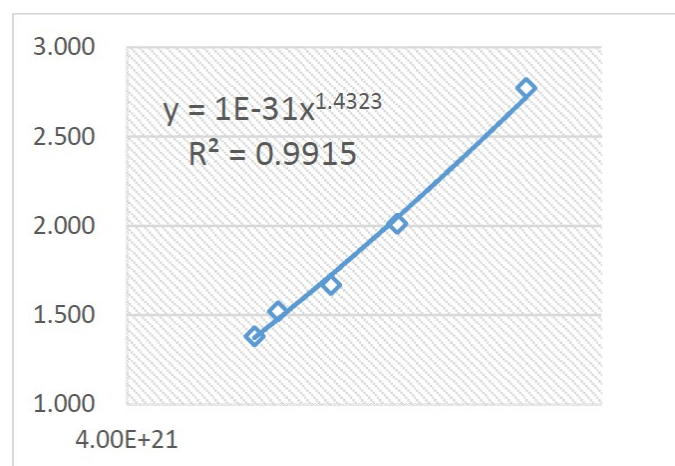
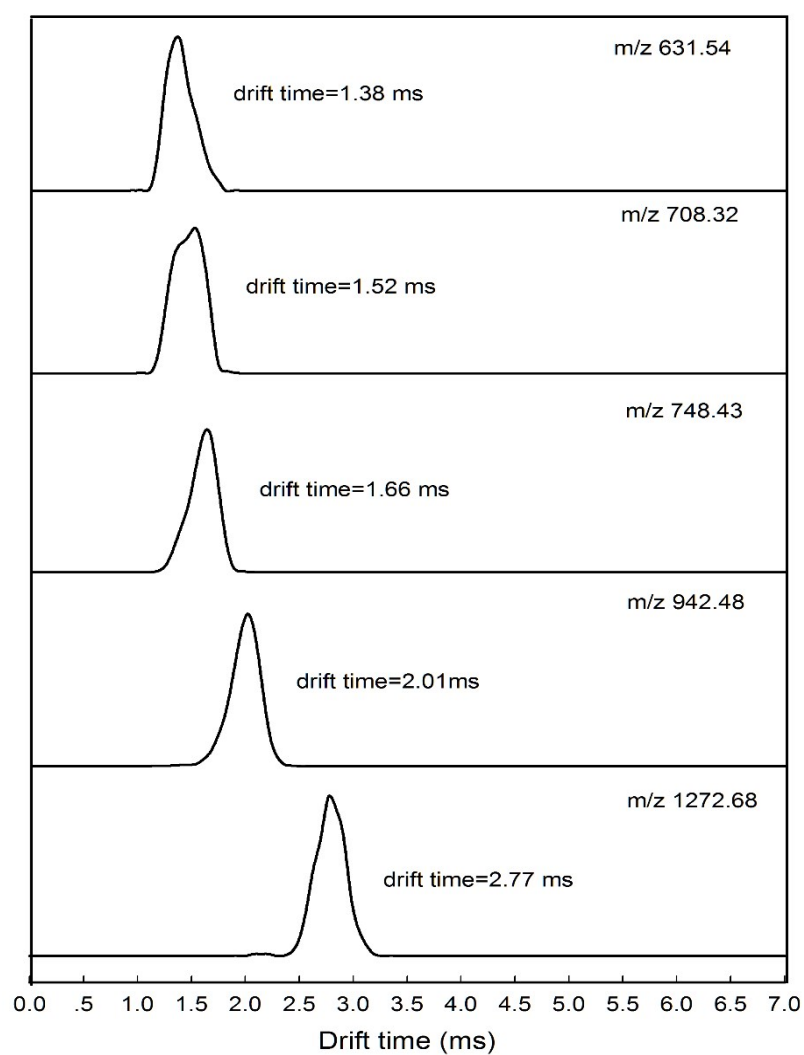


Fig. S4 Drift times and CCSs calibration curve obtained from horse myoglobin (MYO) peptides ($n=3$)