Analytical and Bioanalytical Chemistry

Electronic Supplementary Material

Quantitative analysis of vitamin D and its main metabolites in human milk by supercritical fluid chromatography coupled to tandem mass spectrometry

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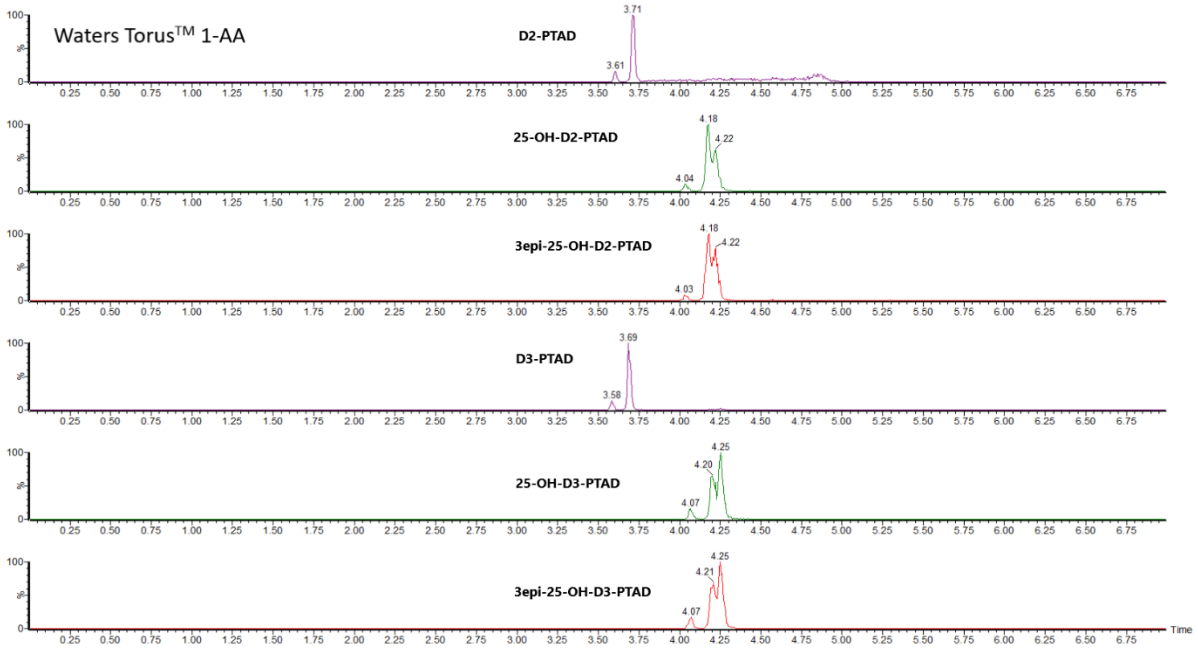

Fig. S1 Chromatogram obtained during column screening on column 1: Waters Torus™ 1-AA, 3 mm x 100 mm, 1.8 µm. Injection of PTAD-derivatized individual solutions (100 ng/mL, 3 µL). Gradient elution, methanol:water (98:2) containing 10 mM ammonium formate into carbon dioxide. Retention time in minutes

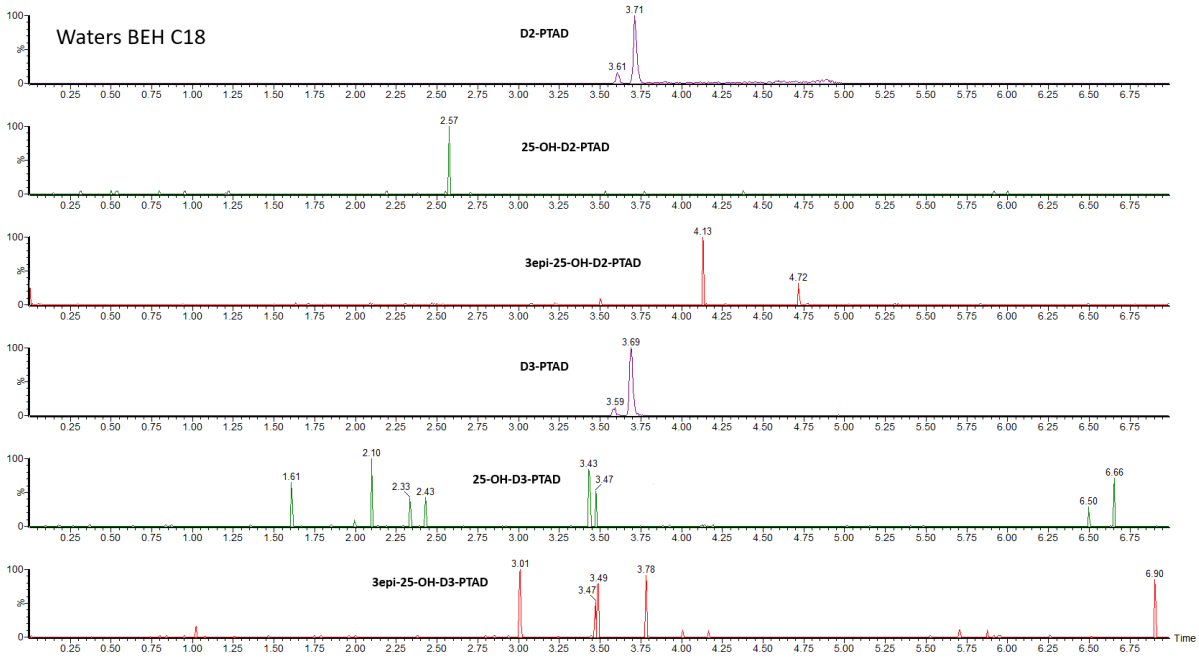

Fig. S2 Chromatogram obtained during column screening on column 2: Waters BEH C18, 3 mm x 100 mm, 1.7 µm. Injection of PTAD-derivatized individual solutions (100 ng/mL, 3 µL). Gradient elution, methanol:water (98:2) containing 10 mM ammonium formate into carbon dioxide. Retention time in minutes

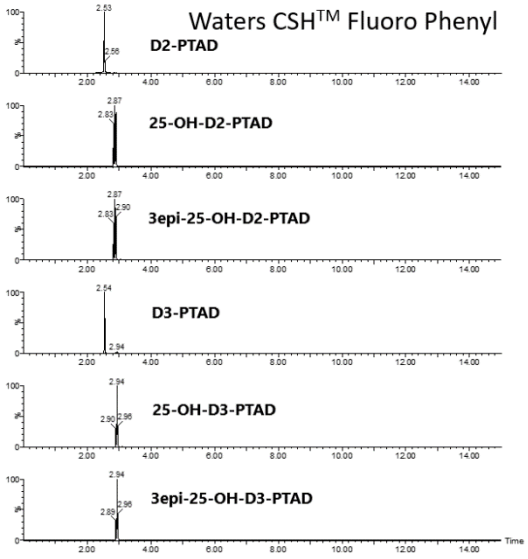

Fig. S3 Chromatogram obtained during column screening on column 3: Waters CSH™ Fluoro Phenyl, 3 mm x 100 mm, 1.7 µm. Injection of PTAD-derivatized individual solutions (100 ng/mL, 3 µL). Gradient elution, methanol:water (98:2) containing 10 mM ammonium formate into carbon dioxide. Retention time in minutes

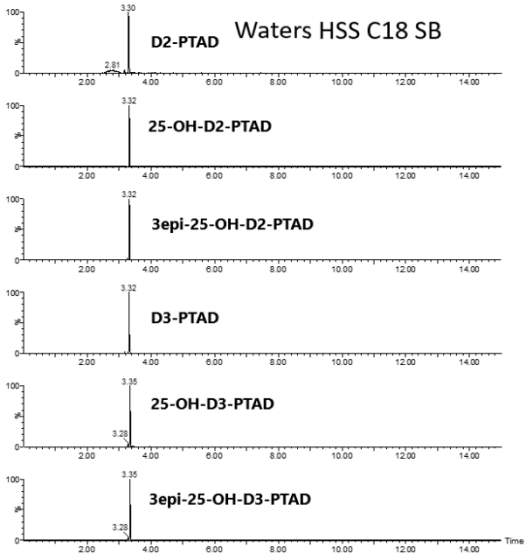

Fig. S4 Chromatogram obtained during column screening on column 4: Waters HSS C18 SB, 3 mm x 100 mm, 1.8 µm. Injection of PTAD-derivatized individual solutions (100 ng/mL, 3 µL). Gradient elution, methanol:water (98:2) containing 10 mM ammonium formate into carbon dioxide. Retention time in minutes

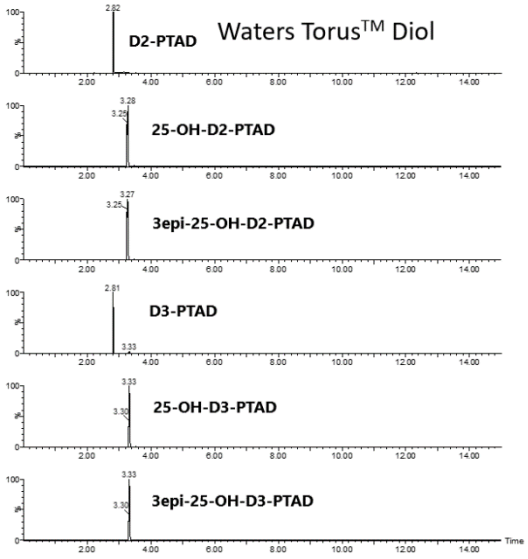

Fig. S5 Chromatogram obtained during column screening on column 5: Waters Torus™ Diol, 3 mm x 100 mm, 1.7 µm. Injection of PTAD-derivatized individual solutions (100 ng/mL, 3 µL). Gradient elution, methanol:water (98:2) containing 10 mM ammonium formate into carbon dioxide. Retention time in minutes

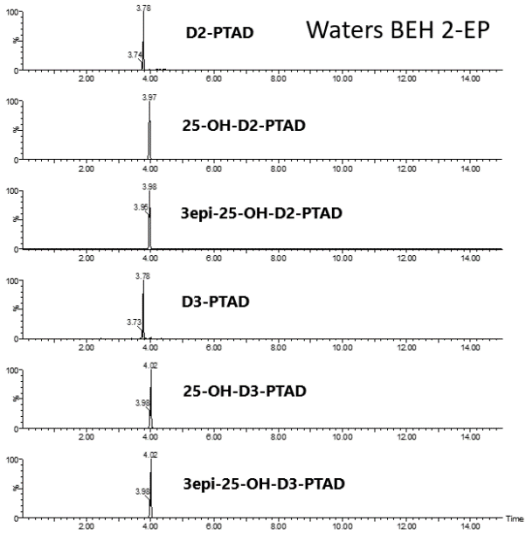

Fig. S6 Chromatogram obtained during column screening on column 6: Waters BEH 2-EP, 3 mm x 100 mm, 1.7 µm. Injection of PTAD-derivatized individual solutions (100 ng/mL, 3 µL). Gradient elution, methanol:water (98:2) containing 10 mM ammonium formate into carbon dioxide. Retention time in minutes

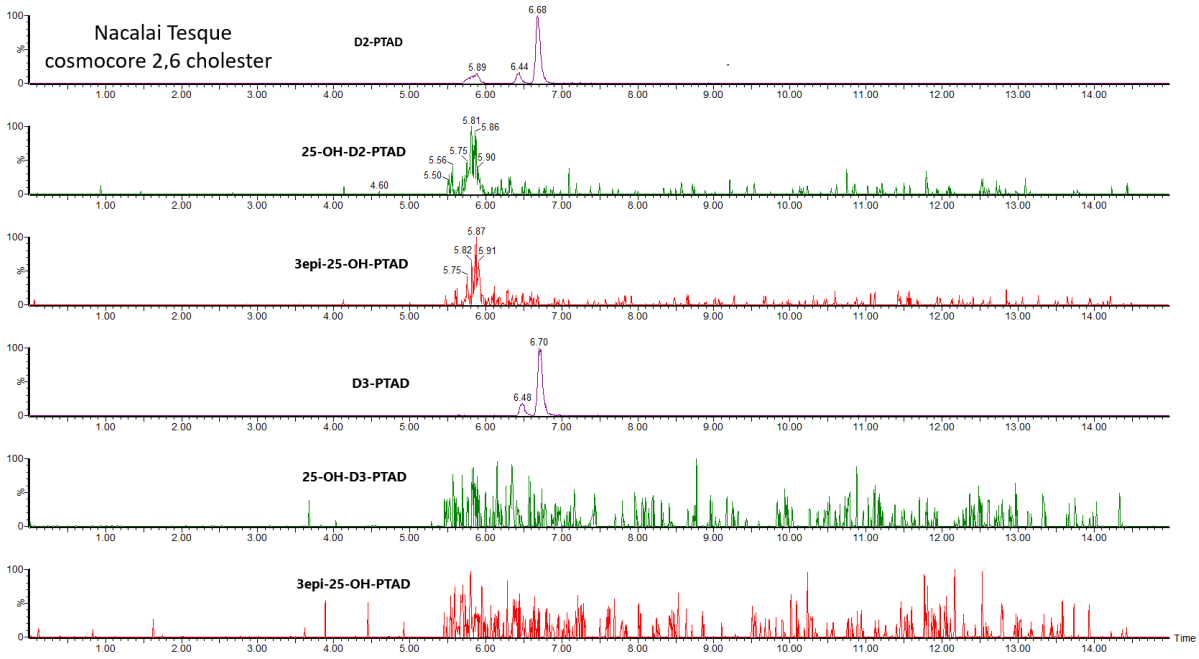

Fig. S7 Chromatogram obtained during column screening on column 7: Nacalai Tesque Cosmocore 2,6 cholester, 2.1 mm x 150 mm, 2.6 µm. Injection of PTAD-derivatized individual solutions (100 ng/mL, 3 µL). Gradient elution, methanol:water (98:2) containing 10 mM ammonium formate into carbon dioxide. Retention time in minutes

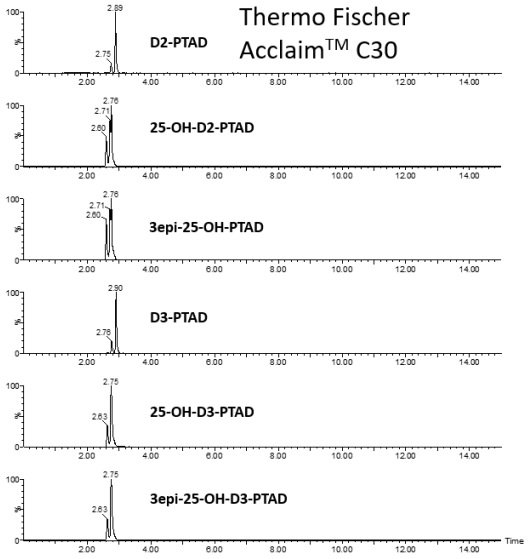

Fig. S8 Chromatogram obtained during column screening on column 8: Thermo Fischer Acclaim™ C30, 2.1 mm x 150 mm, 3 µm. Injection of PTAD-derivatized individual solutions (100 ng/mL, 3 µL). Gradient elution, methanol:water (98:2) containing 10 mM ammonium formate into carbon dioxide. Retention time in minutes

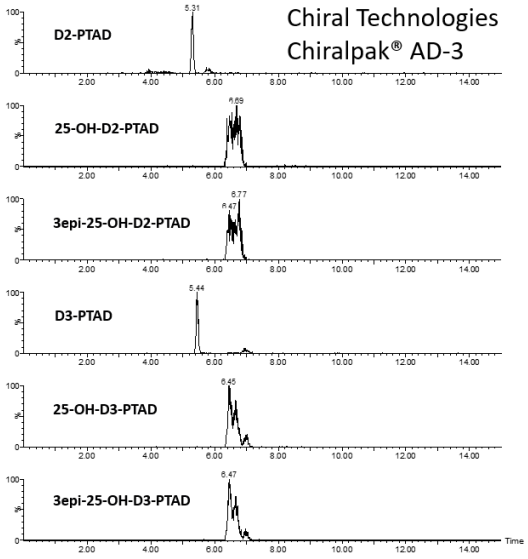

Fig. S9 Chromatogram obtained during column screening on column 9: Chiral Technologies Chiralpak® AD-3, 4.6 mm x 150 mm, 3 µm. Injection of PTAD-derivatized individual solutions (100 ng/mL, 3 µL). Gradient elution, methanol:water (98:2) containing 10 mM ammonium formate into carbon dioxide. Retention time in minutes