

# A Highly Sensitive SPE Derivatization–UHPLC–MS Approach for Quantitative Profiling of Carotenoid-Derived Dialdehydes from Vegetables

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Figure S1. T3-derivatization of carotenoid-derived DIALs. A). Scheme of derivatization of carotenoid-derived DIALs with T3 Reagents; B). Optimization of T3 derivatization conditions of DIALs; C). Comparison of the ionization efficiency of DIALs between with and without derivatization.

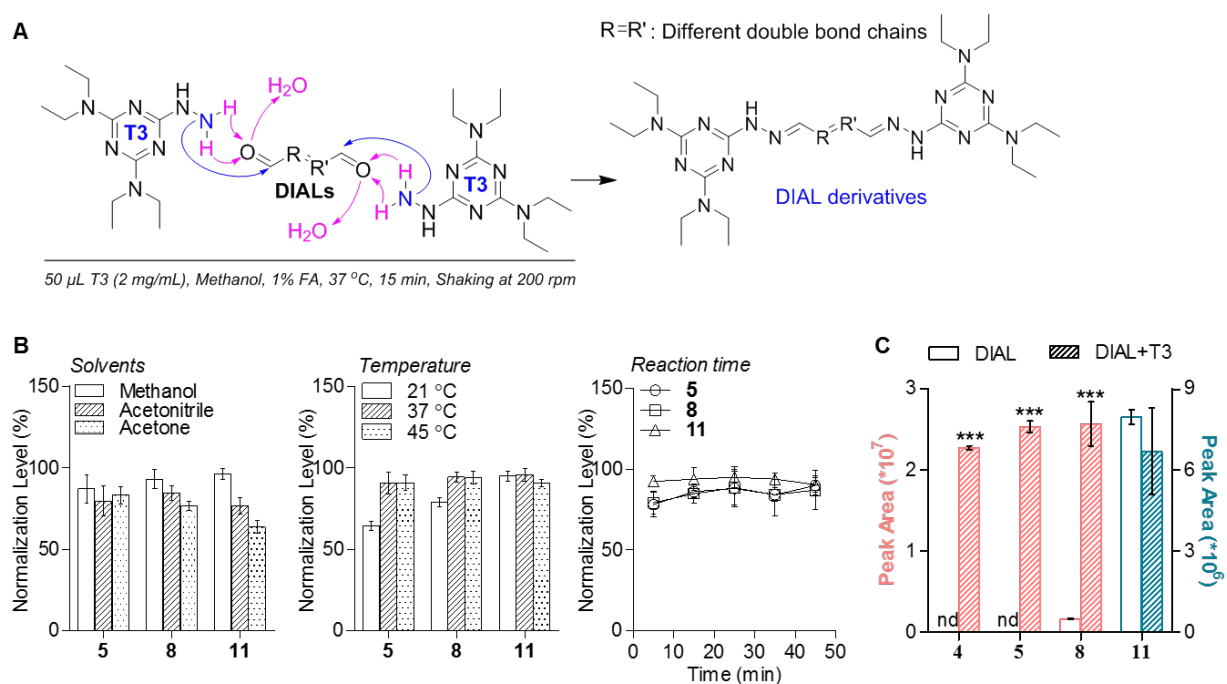


Figure S2. Optimization of T3-derivatized DIALs MS detection.

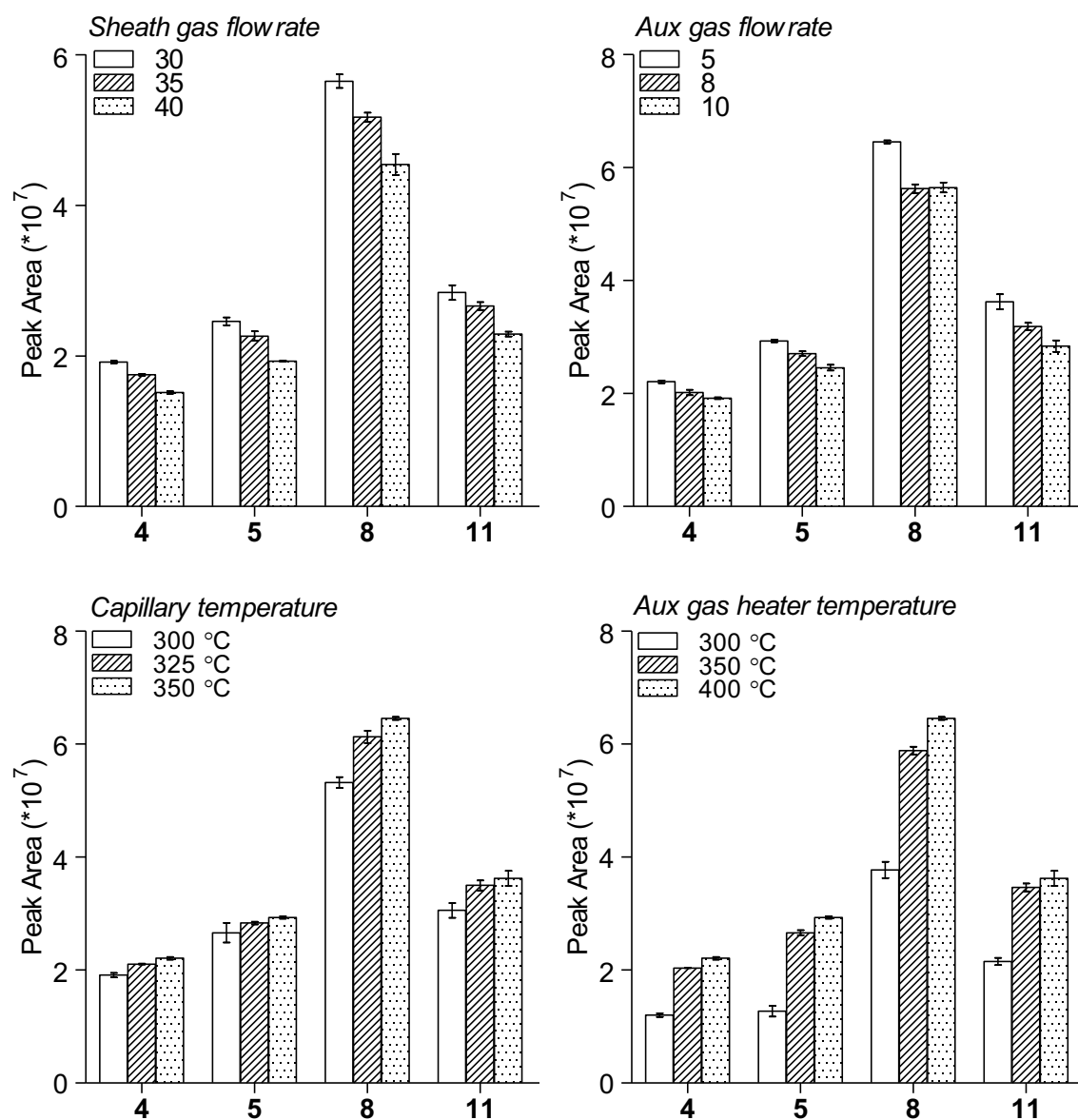


Figure S3. T3-derivatization of apocarotenoids.

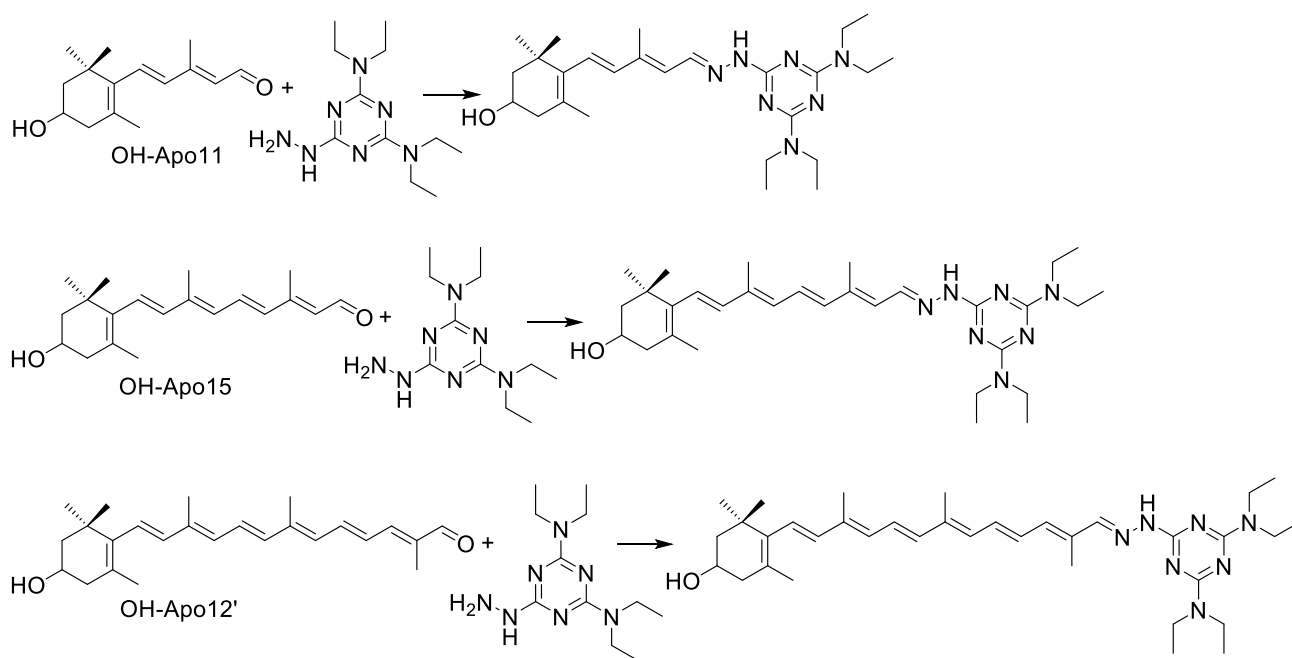


Figure S4. Confirmation of the assignment of endogenous carotenoid-derived DIALs with standards (A) and UHPLC chromatographic retention time rule (B).

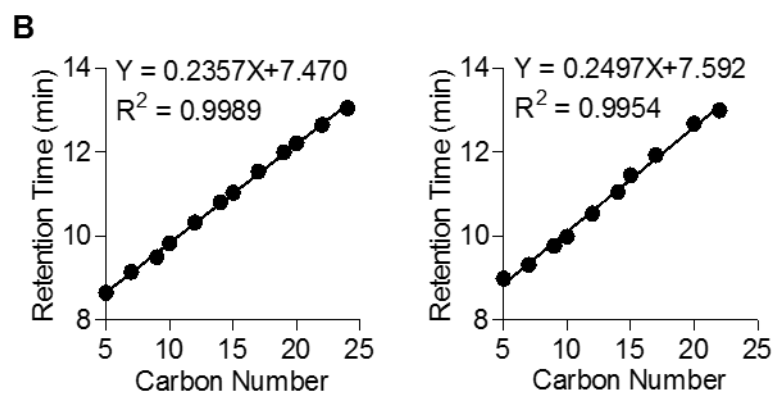
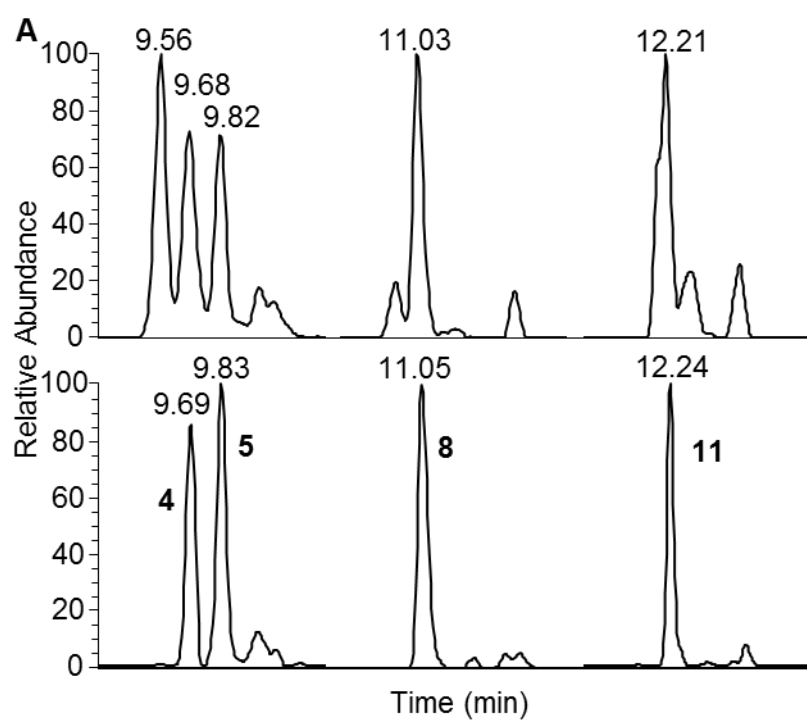


Figure S5. Linearity of the quantitative approach.

