

Supplemental data

Dietary 9-*cis*- β,β -carotene fails to rescue vision in mouse models of

Leber Congenital Amaurosis

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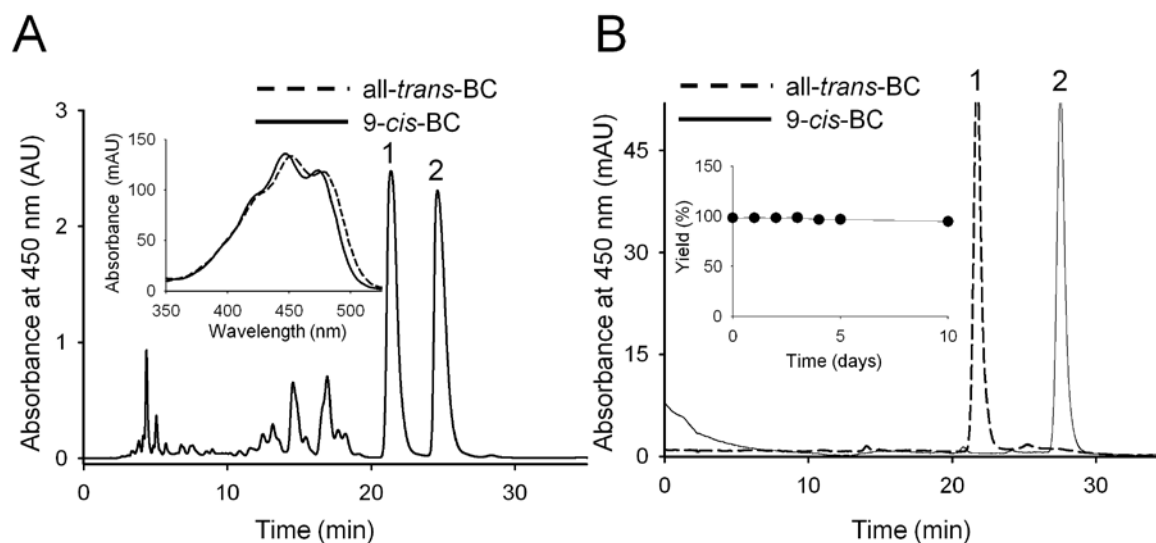


Figure S1. HPLC profile of β,β -carotene isomers in a β,β -carotene-rich powder of the alga *Dunaliella bardawil*.

Samples from a β,β -carotene-rich powder of the alga *Dunaliella bardawil* were extracted with hexane. Extracts were analyzed on a C30 column with MeOH/ methyl *tert*-butyl ether (TBME) (75%/25%) at a flow rate of 1.4 ml/min and analyzed at a wavelength of 450 nm. β,β - Carotene isomers [peak 1, all-*trans*- β,β -carotene (all-*trans*-BC); peak 2, 9-*cis*- β,β -carotene (9-*cis*-BC)] were separated (A) and the specific absorbance spectra of each isomer was determined (A inset). Each purified isomer was re-chromatographed under the same normal phase HPLC conditions (B, all-*trans*-BC, peak 1; 9-*cis*-BC, peak 2). The stability of 9-*cis*-BC was monitored 10 days after being stored at -80 °C and more than 98% was recovered (B inset).