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).