The yellow color of the *Mimulus lewisii* nectar guides is due to hydrophobic carotenoids. In contrast, the yellow color of *Antirrhinum majus* nectar guides is due to hydrophilic flavonoid pigments, aurones (Jorgensen and Geissmann 1955). The yellow trichomes from four flowers of each species were ground in 150 µl methanol, which dissolves both carotenoids and flavonoids. Then an equal volume of water (polar solvent) and dichloromethane (nonpolar solvent) were mixed thoroughly with the methanol extract. Centrifuging at 13,000 rpm for 2 min separated flavonoids and carotenoids to the aqueous and non-aqueous phase, respectively.

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