

Supplementary Table S1 Carotenoids detections of *Cucurbita maxima* peel

Name	Class	Name	Class
α -Carotene	Carotenes	Lycopene	Carotenes
β -Carotene	Carotenes	γ -Carotene	Carotenes
Phytofluene	Carotenes	(E/Z)-Phytoene	Carotenes
ϵ -Carotene	Carotenes	β -citaurin	Xanthophylls
Violaxanthin	Xanthophylls	Zeaxanthin	Xanthophylls
Antheraxanthin	Xanthophylls	Echinenone	Xanthophylls
Neoxanthin	Xanthophylls	Canthaxanthin	Xanthophylls
Capsorubin	Xanthophylls	α -Cryptoxanthin	Xanthophylls
Lutein	Xanthophylls	Capsanthin	Xanthophylls
β -Cryptoxanthin	Xanthophylls	Apocarotenal	Xanthophylls
Astaxanthin	Xanthophylls	Antheraxanthin dipalmitate	Carotenoid esters
Lutein caprate	Carotenoid esters	Lutein laurate	Carotenoid esters
Lutein myristate	Carotenoid esters	Lutein palmitate	Carotenoid esters
Lutein stearate	Carotenoid esters	5,6epoxy-luttein dilaurate	Carotenoid esters
Lutein dilaurate	Carotenoid esters	5,6epoxy-lutein-caprate-palmitate	Carotenoid esters
Lutein dimyristate	Carotenoid esters	Lutein dipalmitate	Carotenoid esters
Lutein distearate	Carotenoid esters	Lutein dioleate	Carotenoid esters
Lutein oleate	Carotenoid esters	Neochrome palmitate	Carotenoid esters
Rubixanthin caprate	Carotenoid esters	Rubixanthin laurate	Carotenoid esters
Rubixanthin myristate	Carotenoid esters	Rubixanthin palmitate	Carotenoid esters
Violaxanthin dibutyrate	Carotenoid esters	Violaxanthin laurate	Carotenoid esters
Violaxanthin myristate	Carotenoid esters	Violaxanthin palmitate	Carotenoid esters
Violaxanthin palmitoleate	Carotenoid esters	Violaxanthin dilaurate	Carotenoid esters
Violaxanthin-myristate-caprate	Carotenoid esters	β -cryptoxanthin oleate	Carotenoid esters
Violaxanthin-myristate-laurate	Carotenoid esters	β -cryptoxanthin palmitate	Carotenoid esters
Violaxanthin dimyristate	Carotenoid esters	β -cryptoxanthin myristate	Carotenoid esters
Violaxanthin-myristate-palmitate	Carotenoid esters	β -cryptoxanthin laurate	Carotenoid esters
Violaxanthin dipalmitate	Carotenoid esters	Zeaxanthin-oleate-palmitate	Carotenoid esters
Violaxanthin-myristate-oleate	Carotenoid esters	Zeaxanthin-palmitate-stearate	Carotenoid esters
Violaxanthin dioleate	Carotenoid esters	Zeaxanthin dipalmitate	Carotenoid esters
Zeaxanthin myristoleate	Carotenoid esters	Zeaxanthin-myristate-palmitate	Carotenoid esters
Zeaxanthin palmitate	Carotenoid esters	Zeaxanthin-laurate-palmitate	Carotenoid esters
Zeaxanthin-caprate-laurate	Carotenoid esters	Zeaxanthin dimyristate	Carotenoid esters
Zeaxanthin dilaurate	Carotenoid esters	Zeaxanthin-laurate-myristate	Carotenoid esters