What's in a name?

SteadfastScarlet[™]

The meaning of STEADFAST is: "fixed in place," resolutely or dutifully firm and unwavering. The word SCARLET means bright or brilliant red color with a tinge of orange – descriptive for that color.

ResoluteRuby[™]

RESOLUTE is defined as "firmly resolved or determined; set in purpose," having or showing great determination. RUBY dark red in color.

ResilientRed™

RESILIENT "Something that is resilient is strong and not easily damaged." RED having the color of blood or fire.

ConstantCrimson[™]

CONSTANT definition is "marked by firm, steadfast, resolution or faithfulness," or that does not change. The word CRIMSON meaning is "strong, bright, deep red color combined with some blue or violet."

Notes

The % figure for dosage is for the addition of product and the ppm is for the Lycopene or BetaCarotene content.

These are guideline dosages for various food categories the quantity required may vary depending on the product formulation, processing parameters etc.

ResoluteRuby A is for solids only.

Disclaimer

The information contained in this document (as well as any advice or assistance) is provided by Lycored only as a courtesy and is intended to be general in nature. Any uses suggested by Lycored are presented only to assist our customers in exploring possible applications. Each customer is solely responsible for determining whether the Lycored products are suitable for such customer's intended use, and for obtaining any necessary governmental registrations and approvals for such customer's production, marketing, sale, use and/or transportation of finished goods using or incorporating the Lycored products.

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Each of the color families represent a color range based on hue value. You will see each product family listed in descending order of hue value, and also highlighting how the color displays in a solid sugar icing, white based milk and transparent water at extremes of dosage. This will be shown as parts per million (ppm) of the source pigment (Lycopene or BetaCarotene).

To make product selection more effective we have highlighted products that are specifically clear or dry (powder) by including these attributes in the name.

Where some color variants are a relatively similar shade, they exist in the same family, but may apply more specifically in one application type or another, so we have highlighted areas of star performance and other related application areas to guide you. Those denoted with A in the name are the star performers in that shade family.

All of the color products listed in this guide are non-GMO, GMO Certified, vegan, kosher, halal and entirely allergen free. Our super stable colors are pH independent, true to fruit varieties where required, non-migrating, stable to tough processing, resistant to rigorous light and temperature conditions and are taste neutral.

Come color with us!

SteadfastScarle	t™ A		5PPM		OPENE	120PPM			DA	NRY			BEVERAGES		FR	UIT BASED FO	ODS	CONFECT	TIONERY	BAK	ERY			SAVC	DRY		
Red with orange direction 40 – 45 Hue range	Shelf Life:2 yearsForm:Viscous red liquid	loing	0.025%	0.05%	0.1%	0.6%		Milk & proteir beverages (UHT)	Ice creams & puddings	Yogurt & yogurt drinks	Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water	Jams & preserves	Canned fruit 8 fruit fillings	& Fruit preps & glazes	Hard boiled candy & gummies	Pan coated	Wet icings	Bakery cream	Savory sauces and marinades	Baked snacks	Surimi seafood	Meat analogues	Meat	Sausage casings
Star Performing Application Cloudy beverages Key Applications	E-number: E160d (ii)Solubility: Water dispersible	Icing					Typical EU Dosages	0.05% - 0-06% 10 - 12 ppm Lycopene	0.10% 20 ppm Lycopene	0.05% - 0.1% e 10 - 20 ppm Lycopene		0.05 - 0.06% 10 - 12 ppm Lycopene	0.05 - 0.06% 10 - 12 ppm Lycopene	0.01% - 0.05% 2 – 10ppm Lycopene	0.025% - 0.05% 5 - 10 ppm Lycopene	0.15% 30 ppm Lycopene	0.06% 12 ppm Lycopene (when 15% in	0.05% - 0.1% 10 - 20 ppm Lycopene		0.1% - 0.15% 20 - 30 ppm Lycopene	0.10% 20 ppm Lycopene	0.10% 20 ppm Lycopene	0.05% - 0.1% 10 - 20 ppm Lycopene	0.1% - 0.14% 20 - 28 ppm Lycopene			
Fruit based beverages, Surimi seafood coatings	Suggested EU Label:Colour: Lycopene or Colour: Lycopene from red tomatoesSuggestedColor: Lycopene	Milk					Typical	0.05% - 0.1%	0.10%	0.05% - 0.1%		0.05 - 0.06%	0.05 - 0.06%	0.01% - 0.05%	0.025% - 0.05%		yogurt base) 0.06%	0.05% - 0.1%		0.05% - 0.5%	0.10%	0.10%	0.05% - 0.1%	0.1% - 0.14%			
	US Label:	Water					US Dosages	10 - 20 ppm Lycopene	20 ppm Lycopene	e 10 - 20 ppm Lycopene		10 - 12 ppm Lycopene	10 - 12 ppm Lycopene	2 – 10ppm Lycopene	5 - 10 ppm Lycopene	30 ppm Lycopene	12 ppm Lycopene (when 15% in yogurt base)	10 - 20 ppm Lycopene		10 - 100 ppm Lycopene	20 ppm Lycopene	20 ppm Lycopene	10 - 20 ppm Lycopene	20 - 28 ppm Lycopene			

ResilientRed [™] A			5PPM	LYCO 10PPM	PENE 20PPM	120PPM			DA	AIRY			BEVERAGES		FR	UIT BASED FO	ODS	CONFEC	TIONERY	BAKI	ERY			SAVO	RY		
Strawberry red 24 – 29 Hue range	Shelf Life:2 yearsForm:Viscous red liquid	Icing	0.025%	0.05%	0.1%	0.6%		Milk & protein beverages (UHT)	Ice creams & puddings	Yogurt & yogurt drinks	Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water	Jams & preserves	Canned fruit & fruit fillings	& Fruit preps & glazes	Hard boiled candy & gummies	Pan coated	Wet icings	Bakery cream	Savory sauces and marinades	Baked snacks	Surimi seafood	Meat analogues	Meat	Sausage casings
Star Performing Application Gummies	E-number: E160d (ii) Solubility: Water dispersible	icing					Typical EU	0.05% - 0.06% 10 - 12 ppm	0.10% 20 ppm Lycopene	0.05% - 0.1% • 10 - 20 ppm		0.05 - 0.06% 10 - 12 ppm	0.05 - 0.06% 10 - 12 ppm	0.01% - 0.05% 2 - 10ppm	0.025% - 0.05% 5 - 10 ppm	0.15% 30 ppm	0.06% 12 ppm Lycopene	0.05% - 0.1% 10 - 20 ppm	1% 100 - 200 ppm	0.1% - 0.15% 20 - 30 ppm	0.10% 20 ppm	0.10% 20 ppm	0.05% - 0.1% 10 - 20 ppm	0.1% - 0.14% 20 - 28 ppm			
Key Applications Surimi seafood coatings, Fruit bases / prep, Cloudy and fruit	Suggested Colour: Lycopene or Colour: EU Label: Lycopene from red tomatoes	Milk					Dosages	Lycopene		Lycopene		Lycopene	Lycopene	Lycopene	Lycopene	Lycopene	(when 15% in yogurt base)	Lycopene	Lycopene	Lycopene	Lycopene	Lycopene	Lycopene	Lycopene			
have a difference of the strength of the stren	Suggested Color: Lycopene US Label:	Water					Typical US Dosages	0.05% - 0.1% 10 - 20 ppm Lycopene	0.10% 20 ppm Lycopene	0.05% - 0.1% 10 - 20 ppm Lycopene		0.05 - 0.06% 10 - 12 ppm Lycopene	0.05 - 0.06% 10 - 12 ppm Lycopene	0.01% - 0.05% 2 – 10ppm Lycopene	0.025% - 0.05% 5 - 10 ppm Lycopene	0.15% 30 ppm Lycopene	0.06% 12 ppm Lycopene (when 15% in yogurt base)	0.05% - 0.1% 10 - 100 ppm Lycopene	0.5% - 1% 100 - 200 ppm Lycopene	0.05% - 0.5% 10 - 100 ppm Lycopene	0.10% 20 ppm Lycopene	0.10% 20 ppm Lycopene	0.05% - 0.1% 10 - 20 ppm Lycopene	0.1% - 0.14% 100 - 200 ppm Lycopene			

ResilientRed™ C	;		5PPM		OPENE	120PPM		DAIRY		1	BEVERAGES	;	FF	RUIT BASED FOODS	CONFE	CTIONERY	ВАК	(ERY		SAV	ORY		
Strawberry red 33 - 37 Hue range	Shelf Life: 1 year		0.025%	0.05%	0.1%	0.6%			Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water	Jams & preserves	Canned fruit & Fruit pr fruit fillings glaz	ps & Hard boiled s candy &		Wet icings	Bakery cream	Savory sauces Baked snacks and marinades	Surimi seafood	Meat analogues	Meat	Sausage casings
Star Performing Application Pan coated candies	Form:Viscous red liquidE-number:E160d (ii)	Icing					(UHT) Typical EU			0.05% - 0.06%	0.05% - 0.06%				gummies	0.5% - 1%							
Key Applications	Solubility:Water dispersibleSuggestedColour: Lycopene or Colour:	Milk					Dosages			10 - 12 ppm Lycopene	10 - 12 ppm Lycopene					100 - 200 ppm Lycopene							
Cloudy and fruit based beverages	EU Label: Lycopene from red tomatoes						Typical US			0.05% - 0.06%	0.05% - 0.06%					0.5% - 1%							
	Suggested Color: Lycopene US Label:	Water					Dosages			10 - 12 ppm Lycopene	10 - 12 ppm Lycopene					100 - 200 ppm Lycopene							

ResoluteRuby [™]	Α		5PPM	1	OPENE	и 120ррм			DA	AIRY			BEVERAGES	;	FI	RUIT BASED FOC	DS	CONFECT	IONERY	BAK	ERY		SAVO	PRY		
Blue red 18 – 24 Hue range	Shelf Life:2 yearsForm:Viscous red liquid		0.025%	0.05%	0.1%	0.6%		Milk & protein beverages (UHT)		Yogurt & yogurt drinks	Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water	Jams & preserves	Canned fruit & fruit fillings	Fruit preps & glazes	Hard boiled candy & gummies	Pan coated	Wet icings	Bakery cream	Savory sauces Baked snacks and marinades	Surimi seafood	Meat analogues	Meat	Sausage casings
Star Performing Application UHT dairy milk	E-number: E160d (ii)	Icing					Typica EU	0.05% - 0.06%																0.15%		0.15%
Key Applications Ice cream, Fruit bases / Preparations, Sauces,	Solubility:Water dispersibleSuggestedColour: Lycopene or Colour:EU Label:Lycopene from red tomatoes	Milk					Dosage	Lycopene	10 - 30 ppm Lycopene 0.05% - 0.15%															30 ppm Lycopene 0.15% - 0.25%	0.15% - 0.25%	30 ppm Lycopene 0.2% - 0.7%
Sausage casings	Suggested Color: Lycopene US Label:	Water					US Dosage	10 - 20 ppm	10 - 30 ppm Lycopene															30 - 50 ppm Lycopene	30 - 50 ppm Lycopene	40 - 140 ppm Lycopene

ConstantCrimso	on™ A	5	PPM 1	LYCOPE OPPM 2		20PPM			DA	AIRY			BEVERAGES		FR	UIT BASED FO	ODS	CONFEC	TIONERY	BAK	ERY			SAVO	DRY		
Red purple 9 – 15 Hue range	Shelf Life:2 yearsForm:Viscous red liquid	0 Icing	.025%	0.05%	0.1%	0.6%		Milk & protein beverages (UHT)	Ice creams & puddings	Yogurt & yogurt drinks	Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water	Jams & preserves	Canned fruit & fruit fillings	Fruit preps & glazes	Hard boiled candy & gummies	Pan coated	Wet icings	Bakery cream	Savory sauces and marinades	Baked snacks	Surimi seafood	Meat analogues	Meat	Sausage casings
Star Performing Application UHT dairy milk,	E-number: E160d (ii)	licing					Typical	0.05% - 0.06%	0.10%	0.05% - 0.1%		0.05% - 0.06%	0.05% - 0.06%	0.01% - 0.05%	0.025% - 0.05%	0.15%	0.06%	0.05% - 0.1%	0.5% - 1%	0.1% - 0.15%	0.10%	0.10%	0.05% - 0.1%	0.1% - 0.14%			
Surimi seafood coatings Key Applications	Solubility:Water dispersibleSuggestedColour: Lycopene or Colour:	Milk					EU Dosages	5 - 12 ppm Lycopene	20 ppm Lycopene	e 10 - 20 ppm Lycopene		5 - 12 ppm Lycopene	5 - 12 ppm Lycopene	2 – 10ppm Lycopene	5 - 10 ppm Lycopene	30 ppm Lycopene	12 ppm Lycopene (when 15% in yogurt base)	10 - 20 ppm Lycopene	100 - 200 ppm Lycopene	20 - 30 ppm Lycopene	20 ppm Lycopene	20 ppm Lycopene	10 - 20 ppm Lycopene	20 - 28ppm Lycopene			
Cloudy Beverages, Gummies, Hard boiled sweets	EU Label: Lycopene from red tomatoes						Typical	0.05% - 0.1%	0.1%	0.05% - 0.1%		0.05% - 0.06%	0.05% - 0.06%	0.01% - 0.05%	0.025% - 0.05%	0.15%	0.06%	0.05% - 0.1%	0.5% - 1%	0.5% - 1%	0.10%	0.10%	0.05% - 0.1%	0.1% - 0.14%			
	Suggested Color: Lycopene US Label:	Water					US Dosages	10 - 20 ppm Lycopene	20 ppm Lycopene	e 10 - 20 ppm Lycopene		5 - 12 ppm Lycopene	5 - 12 ppm Lycopene	2 – 10ppm Lycopene	5 - 10 ppm Lycopene	30 ppm Lycopene	12 ppm Lycopene (when 15% in yogurt base)	10 - 20 ppm Lycopene	100 - 200 ppm Lycopene	10 - 100 ppm Lycopene	20 ppm Lycopene	20 ppm Lycopene	10 - 20 ppm Lycopene	20 - 28 ppm Lycopene			

ConstantCrimso	on™ C			5PPM	LYCO 10PPM		120PPM			D	AIRY			BEVERAGES		FR	UIT BASED FC	OODS	CONFECT	TIONERY	BAK	ERY		SAV	ORY		
Cherry red 16 – 22 Hue range	Shelf Life: 2 y Form: Vis	years scous red liquid	leine.	0.025%	0.05%	0.1%	0.6%		Milk & protein beverages (UHT)			Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water	Jams & preserves	Canned fruit & fruit fillings	& Fruit preps & glazes	Hard boiled candy & gummies	Pan coated	Wet icings	Bakery cream	Savory sauces Baked snacks and marinades	Surimi seafood	Meat analogues	Meat	Sausage casings
Star Performing Application Fruit Base / Preps		60d (ii)	Icing					Typical EU	0.05% - 0-06% 5 - 12 ppm	0.10% 20 ppm Lycopen	0.05% - 0.1% e 10 - 20 ppm					0.025% - 0.05% 5 - 10 ppm	0.15% 30 ppm	0.06% 12 ppm Lycopene									
Key Applications Ice cream, Yogurts and Yogurt drinks	Suggested Co	blour: Lycopene or Colour: copene from red tomatoes	Milk					Dosages	Lycopene 0.05% - 0.1%	0.10%	Lycopene 0.05% - 0.1%					Lycopene 0.025% - 0.05%	Lycopene	(when 15% in yogurt base) 0.06%									
	Suggested Co US Label:	blor: Lycopene	Water					Typical US Dosages			e 10 - 20 ppm Lycopene					5 - 10 ppm Lycopene	30 ppm Lycopene	12 ppm Lycopene (when 15% in yogurt base)									

What's in a name?

OrangeOvation[™]

ORANGE is the color, it is descriptive of the citrus fruit of that color.

The word OVATION means clapping, applause, and therefore implying celebrating an impressive performer.

GoldHold™

GOLD is the common name of the color GOLD, the precious metal, a flaxen shade. The word HOLD means to keep or maintain position. **StellarYellow**[™]

The word STELLAR is defined as being "related to a star or stars," or "having the quality of a star." YELLOW having the colour of lemons or butter.

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Come color with us!

OrangeOvation ^T	MA			 International Control of Contro	ROTENE	20PPM				DAIRY			BEVERAGES	j	FR	UIT BASED FO	ODS	CONFECT	IONERY		BAKERY		1	SAVORY		
Orange 32.5 - 40 Hue range	Shelf Life: Form:	Viscous orange liquid	0.025%	0.05%	0.1%	0.6%		Milk & protein beverages (UHT)	Ice creams & puddings	Yogurt & yogurt drinks	Dry mixes Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water	Jams & preserves	Canned fruit & fruit fillings	Fruit preps & glazes	Hard boiled candy & gummies	Pan coated	Wet icings	Bakery cream	Cake mixes	Savory sauces Baked snacks and marinades	Surimi seafood	Meat analogues	Meat
Star Performing Application	E-number:	E160a (iii)						0.025%	0.025%	0.025% - 0.05%	0.10%				0.025%	0.05%	0.05%	0.025% - 0.05%		0.025% - 0.1%			0.025% - 0.05%	0.05% - 0.07%	0.05%	
Surimi seafood coatings Key Applications Fruit bases / preparations, Hard cheese, Yogurt and	Solubility: Suggested EU Label:	Water dispersible Colour: BetaCarotene Milk					Typical EU Dosages	5ppm BetaCarotene	5ppm BetaCarotene	5 - 10 ppm BetaCarotene	20 ppm BetaCarotene				5 ppm BetaCarotene	10 ppm BetaCarotene	10 ppm BetaCarotene (when 15% in yogurt.	5 - 10 ppm BetaCarotene		5 - 20 ppm BetaCarotene			5 - 10 ppm BetaCarotene	10 - 14 ppm BetaCarotene	10 ppm BetaCarotene	
Yogurt drinks, Hard boiled sweets and Gummies	Suggested US Label:	Color: BetaCarotene						0.025%	0.05%	0.025% - 0.05%	0.10%				0.025%	0.05%	0.05%	0.025% - 0.05%		0.05% - 0.3%			0.025% - 0.05%	0.05% - 0.07%	0.05%	0.05%
sweets and Gummles		Water					Typical US Dosages	5 ppm BetaCarotene	10 ppm BetaCarotene	5 - 10 ppm BetaCarotene	20 ppm BetaCarotene				5 ppm BetaCarotene	10 ppm BetaCarotene	10 ppm BetaCarotene (when 15% in yogurt)	5 - 10 ppm BetaCarotene		10-60 ppm BetaCarotene			5 - 10 ppm BetaCarotene	10 - 14 ppm BetaCarotene	10 ppm BetaCarotene	10 ppm BetaCarotene

OrangeOvation ^{TT}	™ В				BETA-CA 10PPM		120PPM				DAIRY				BEVERAGES		FRU	JIT BASED FOO	DS	CONFECT	IONERY		BAKERY			SAVORY		
Orange red 29 - 38 Hue range	Shelf Life: Form:	2 years Viscous orange red	loina	0.025%	0.05%	0.1%	0.6%		Milk & protein beverages (UHT)	Ice creams & puddings	Yogurt & yogurt drinks	Dry mixes	Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water	Jams & preserves	Canned fruit & fruit fillings	Fruit preps & glazes	Hard boiled candy & gummies	Pan coated	Wet icings	Bakery cream	Cake mixes	Savory sauces Baked snacks and marinades	Surimi seafood	Meat analogues	Meat
Star Performing Application Cloudy beverages	E-number:	liquid E160a (iii)	lcing					Typical EU	0.025%	0.05%	0.025% - 0.05%		0.10%	0.025% - 0.05%	0.025% - 0.05%		0.025%	0.05%		0.025% - 0.05%		0.025% - 0.1%			0.025% - 0.05%	0.05% - 0.07%	0.05%	
Key Applications	Solubility:	Water dispersible	Milk					Dosages	5 ppm BetaCarotene	10 ppm BetaCarotene	5 - 10 ppm BetaCarotene		20 ppm BetaCarotene	5 - 10 ppm BetaCarotene	5 - 10 ppm BetaCarotene		5 ppm BetaCarotene	10 ppm BetaCarotene		5 - 10 ppm BetaCarotene		5 - 20 ppm BetaCarotene			5 - 10 ppm BetaCarotene	10 - 14 ppm BetaCarotene	10 ppm BetaCarotene	
Surimi seafood coatings, Fruit bases / Preparations	Suggested EU Label:	Colour: BetaCarotene						Typical	0.025%	0.05%	0.025% - 0.05%		0.10%	0.025% - 0.05%	0.025% - 0.05%		0.025%	0.05%		0.025% - 0.05%		0.05% - 0.5%			0.025% - 0.05%		0.05%	0.05%
	Suggested US Label:	Color: BetaCarotene	Water					US Dosages	5 ppm BetaCarotene	10 ppm BetaCarotene	5 - 10 ppm BetaCarotene		20 ppm BetaCarotene	5 - 10 ppm BetaCarotene	5 - 10 ppm BetaCarotene		5 ppm BetaCarotene	10 ppm BetaCarotene		5 - 10 ppm BetaCarotene		10 - 100 ppm BetaCarotene			5 - 10 ppm BetaCarotene		10 ppm BetaCarotene	10 ppm BetaCarotene

OrangeOvation™	[™] C Clea	ır	5P		YCOPENI PPM 20P	е РРМ 120РРМ]			DAIRY				BEVERAGES		FR	RUIT BASED FOODS	CO	NFECTIONEI	RY	BAKERY			SAVORY		
Clear orange 58-68 Hue range	Shelf Life: Form:	2 years Viscous brown liquid		05% 0.:	.1% 0.2	2% 0.12%		Milk & pro beverage (UHT)	ein Ice cream s pudding		Dry mixes	Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water	Jams & preserves	Canned fruit & Fruit pre fruit fillings glaze		& coa	an Wet ited icing		Cake mixes	Savory sauces Baked snacks and marinades	Surimi seafood	Meat analogues	Meat
Star Performing Application Clear beverages and fruit based beverages	E-number: Solubility:	E160d (ii)	ing				Typica EU Dosage										0.05% - (5 - 10 pp	m 10 - 20 p	pm							
Key applications Gummies, Boiled sweets	Suggested EU Label:	Colour: Lycopene or Colour: Lycopene from red tomatoes	ilk				Туріса						0.05% - 0.1%	0.05% - 0.1%	0.05% - 0.1%		Lycope 0.05% - 0									
	Suggested US Label:	Color: Lycopene Wa	ater				US Dosage	S					5 - 10 ppm Lycopene	5 - 10 ppm Lycopene	5 - 10 ppm Lycopene		5 - 10 pp Lycope									

OrangeOvation™	[™] D				AROTENE					DAIRY				BEVERAGES		FR	UIT BASED FOO	ODS	CONFECT	IONERY		BAKERY		1	SAVORY		
Orange 32.5 - 40 Hue range Star Performing Application Pan coated candies		Viscous orange liquid E160a (iii)	0.025%	0.05%	0.1%	0.6%	Typical EU	Milk & protein beverages (UHT)	Ice creams & puddings	Yogurt & yogurt drinks	Dry mixes	Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water	Jams & preserves	Canned fruit & fruit fillings	Fruit preps & glazes	Hard boiled candy & gummies	Pan coated	Wet icings	Bakery cream	Cake mixes	Savory sauces Baked snacks and marinades	Surimi seafood	Meat analogues	Meat
Key applications Tablet coating	Suggested EU Label:	Water dispersible Colour: BetaCarotene Milk	k				Dosages Typical US													0.1% - 0.25%							
	Suggested US Label:	Color: BetaCarotene	ter				Dosages													20 - 50 ppm BetaCarotene							

GoldHold™ A Dry			5			OTENE 20PPM	120PPM			DAIRY				BEVERAGES		FI	RUIT BASED FC	OODS	CONFECT	IONERY		BAKERY			SAVORY		
66 72 Huo rango	Shelf Life: Form:	Powder		.05%	0.1%	0.2%	1.2%		Milk & protein beverages (UHT)	Yogurt & yogurt drinks	Dry mixes	Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water	Jams & preserves	Canned fruit & fruit fillings	& Fruit preps & glazes	Hard boiled candy & gummies	Pan coated	Wet icings	Bakery cream	Cake mixes	Savory sauces Baked snacks and marinades	Surimi seafood	Meat analogues	Meat
Dry cake mixes	E-number: Solubility:	E160a (iii)	Icing					Typical EU			0.3% - 0.5%																
Key applications s	Suggested EU Label:		Milk					Dosages			30 - 50 ppm BetaCarotene 0.3% . 0.5%		0.01% - 0.05%	0.01% - 0.05%	0.01% - 0.05%						5 - 30 ppm BetaCarotene 0.05% - 0.3%	5 - 30 ppm BetaCarotene 0.05% - 0.3%	30 - 50 ppm BetaCarotene 0.3% - 0.5%				
	Suggested US Label:		Water					Typical US Dosages			30 - 50 ppm BetaCarotene		1-5 ppm BetaCarotene	1-5 ppm BetaCarotene	1 - 5 ppm BetaCarotene						5 - 30 ppm BetaCarotene	5 - 30 ppm BetaCarotene	30 - 50 ppm				

GoldHold™ B			5PP			е / 120PPM				DAIRY				BEVERAGES		FF	RUIT BASED FC	DODS	CONFECT	IONERY		BAKERY			SAVORY		
Yellow to orange 71 - 75 Hue range	Shelf Life: Form:	1 year Viscous brown liquid	0.038	3% 0.0779	% 0.15%	0.92%		Milk & protein beverages (UHT)	Ice creams & puddings	Yogurt & yogurt drinks	Dry mixes	Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water	Jams & preserves		& Fruit preps & glazes	Hard boiled candy & gummies	Pan coated	Wet icings	Bakery cream	Cake mixes	Savory sauces Baked snacks and marinades	Surimi seafood	Meat analogues	Meat
Star Performing Application Hard cheeses		E160a (iii)					Typical EU	0.0077% - 0.039%	0.039 - 0.078%	0.039 - 0.078%		0.0077% - 0.039%															
Key applications Icings, Snacks	Solubility: Suggested						Dosages	1 - 5 ppm BetaCarotene	5 - 10 ppm BetaCarotene	5 - 10 ppm BetaCarotene		1 - 5 ppm BetaCarotene															
	EU Label: Suggested US Label:	Color: BetaCarotene					Typical US	1 - 5 ppm	5 - 10 ppm	0.039 - 0.078% 5 - 10 ppm		0.0077% - 0.039% 1 - 5 ppm															
	03 Label:	Wate	er 🛛				Dosages	BetaCarotene	BetaCarotene	BetaCarotene		BetaCarotene															

StellarYellow™ A				BETA-CARC 10PPM 20	DTENE DPPM 120PF	νM				DAIRY				BEVERAGES		FR	UIT BASED FOC	DDS	CONFECT	IONERY		BAKERY			SAVORY		
Yellow to orange 75 - 79 Hue range	Shelf Life: Form:	Viscous brown liquid	0.01%	0.02% 0	0.04% 0.24%	6	Milk & pr bevera (UH1	ges puo)	reams & Idings	Yogurt & yogurt drinks	Dry mixes	Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water	preserves	Canned fruit & fruit fillings	glazes	candy & gummies	Pan coated	Wet icings	Bakery cream	Cake mixes	Savory sauces Baked snacks and marinades	Surimi seafood	Meat analogues	Meat
Star Performing Application Cloudy beverages Key applications Fruit Bases / Preparations, UHT dairy milk, Surimi seafood coatings, Hard boiled sweets and Gummies	E-number: Solubility: Suggested EU Label:	E160a (iii) Water dispersible Colour: BetaCarotene Milk				Typica EU Dosage	5 ppr BetaCarc	n 10	.02% ppm Carotene	0.01% - 0.02% 5 - 10 ppm BetaCarotene			0.002% - 0.02% 1 - 10 ppm BetaCarotene	0.002% - 0.02% 1 - 10 ppm BetaCarotene		0.01% 5 ppm BetaCarotene	0.02% 10 ppm BetaCarotene	0.02% 10 ppm BetaCarotene (when 15% in yoghurt)	0.01% - 0.02% 5 - 10 ppm BetaCarotene		0.1% - 0.3% 5 - 15 ppm BetaCarotene			0.01% - 0.02% 5 - 10 ppm BetaCarotene		0.02% 10 ppm BetaCarotene	
	Suggested US Label:	Color: BetaCarotene Water				Typica US Dosage	5 ppr	n 10	.02% ppm Carotene	0.01% - 0.02% 5 - 10 ppm BetaCarotene			0.002% - 0.02% 1 - 10 ppm BetaCarotene	0.002% - 0.02% 1 - 10 ppm BetaCarotene		0.10% 20 ppm BetaCarotene	0.02% 10 ppm BetaCarotene	0.02% 10 ppm BetaCarotene (when 15% in yoghurt)	0.01% - 0.02% 5 - 10 ppm BetaCarotene		0.02% - 0.08% 10 - 40ppm BetaCarotene			0.01% - 0.02% 5 - 10 ppm BetaCarotene		0.02% 10 ppm BetaCarotene	

StellarYellow [™] C	Clear				CAROTEN M 20PPN	е I 120PPM				DAIRY				BEVERAGES		FR	UIT BASED FO	ODS	CONFECTI	ONERY		BAKERY			SAVORY		
Yellow 80 - 84 Hue range Star Performing Application	Form:	Viscous brown liquid	0.016%	6 0.033	% 0.066%	0.4%		Milk & protein beverages (UHT)	Ice creams & puddings	Yogurt & yogurt drinks	Dry mixes	Cheese	Cloudy beverages	Fruit based drinks	Colored flavored water 0.01% - 0.017%	Jams & preserves	Canned fruit & fruit fillings	Fruit preps & glazes	candy & gummies	Pan coated	Wet icings 0.044% - 0.132%	Bakery cream	Cake mixes	Savory sauces Baked snacks and marinades	Surimi seafood	Meat analogues	Meat
Clear beverages Key applications Fruit bases / Preparations, Hard boiled sweets and	Solubility: Suggested EU Label:		1ilk				Typical EU Dosages								3 - 5 ppm BetaCarotene			3 - 5 ppm BetaCarotene (when 15% in yogurt)	1 - 3 ppm BetaCarotene		13-40 ppm BetaCarotene						
Gummies	Suggested US Label:		Vater				Typical US Dosages								0.0033% - 0.017% 1 - 5 ppm BetaCarotene			0.01% - 0.017% 3 - 5 ppm BetaCarotene (when 15% in yogurt)	0.0033% - 0.01% 1 - 3 ppm BetaCarotene		0.044% - 0.132% 13-40 ppm BetaCarotene						