Colour Natural

* Fruits used for concentrates Elderberry, Aronia, Grape in variable lots, used plant extract: Black Carrot.

* * Plants used for extracts: Stinging Nettle and Spinach in variable lots

* * *Dosage based on sugar solution

poor moderate good

Colour Reference	Product	Regulatory Status (EEC-Code)	Characteristics	Colour Shade Impression	Solubility	Liquid or Powder	Light	Heat	Acid
Clean Label (cont.)									
	Spinach Extract OS 20	Colour intensive fruit concentrate	Extract, approx. 5,8 C.U., With triglyceride (middle chained) as carrier	Spinach	O.S	L	moderate	good	poor
	Nettle Extract OS 10	Colour intensive fruit concentrate	Extract approx. 3,7 C.U., With triglyceride (middle chained) as carrier	Nettle	O.S	L	moderate	good	poor
Classic – E Numbers									
	Chlorophyllin LC 10	E 141 (ii) C.I. Number 75815	Approx. 10% Copper chlorophyllin	Blue Green	W.S	L	moderate	good	moderate
	Chlorophyllin AS 1,6	E 141 (ii) C.I. Number 75815	Approx. 1.6% Copper chlorophyll, polysorbate 80, acid stable	Blue Green	W.D	L	good	good	good
	Chlorophyllin AS 10	E 141 (ii) C.I. Number 75815	Approx. 10% Copper chlorophyllin, polysorbate 80, acid stable	Green	W.S	L	good	good	good
	Chlorophyll OC 18	E 141 (ii) C.I. Number 75815	Approx. 18% Copper chlorophyll	Blue Green	O.S	L	moderate	good	moderate
	Chlorophyllin PC 100	E 141 (ii) C.I. Number 75815	Approx. 100% Copper chlorophyllin	Blue Green	W.S	P	moderate	good	moderate
	Chlorophyllin PC 5	E 141 (ii) C.I. Number 75815	Approx. 5% Copper chlorophyllin	Blue Green	W.S	P	moderate	good	moderate
	Chlorophyllin AS	E 141 (ii) C.I. Number 75815	Approx. 7% Copper chlorophyllin, mpg, polysorbate 80	Green	W.S	L	good	good	good
Clean Label									
	Curcuma Extract WS	Colour intensive Plant extract	Emulsion, approx. 1.8% Curcumin, citric acids esters from mono- and diglycerides of fatty esters and ascorbyl palmitate as emulsifier, especially suitable for cereals	Sunny	W.D	L	good	good	good
	Turmeric Yellow T8	Colour intensive Plant extract	Emulsion, approx. 8% Curcumin, polysorbate 80 as emulsifier, acid stable	Yellow Green	W.D	L	good	good	good
	Turmeric Yellow T2	Colour intensive Plant extract	Emulsion, approx. 1.8% Curcumin, polysorbate 80 as emulsifier, acid stable	Green Yellow	W.D	L	good	good	good
	Curcuma Extract PG 1,7	Colour intensive Plant extract	Liquid, approx. 1.7% Curcumin, in propylenglycol, acid stable	Green Yellow	W.D	L	good	good	good
	Curcuma Extract OS 1	Colour intensive Plant extract	Oleoresin, approx. 1.0% Curcumin, with triglyceride (middle chained) as carrier	Green Yellow	O.S	L	good	good	good
	Curcuma Extract OS 1	Colour intensive Plant extract	Oleoresin, approx. 1.0% Curcumin, with triglyceride (middle chained) as carrier	Green Yellow	O.S	L	good	good	good
	Curcuma Extract P 1	Colour intensive Plant extract	Spraydried, approx. 1.0% Curcumin, polysorbate 80 as emulsifier	Brilliant	W.D	P	good	good	good
	Essential Citrus Oil 1,8	Colour intensive Plant extract	Oil, approx. 18000 Ppm carotenoids, with triglyceride (middle chained) as carrier	Citrus	O.S	L	good	good	good

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poor moderate good

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			Clean Label (cont.)						
	Citrus Oil Emulsion FRWS	Colour intensive Plant extract	Emulsion, approx. 1200 Ppm carotenoids, polysorbate 80 as emulsifier	Citrus	W.D	L			
	Citrus Oil SP	Colour intensive Plant extract	Spraydried, modified starch as emulsifier	Citrus	W.D	P			
	Safflower extract L 4	Colour intensive Plant extract	Approx. 21 C.U., Acid stable	Brown Yellow	W.S	L			
	Gardenia Yellow	Colour intensive Plant extract	Approx. 61 C.U., Acid stable! Packed in bag in box/bucket	Sunny	W.S	L			
	Safflower Extract 70 SP	Colour intensive Plant extract	Spraydried, approx. 21 C.U., With maltodextrin as carrier	Brown Yellow	W.D	P			
			Classic – E Numbers						
	Turmeric Extract T 7	E 100 C.I. Number 75300	Emulsion, approx. 7% Curcumin, polysorbate 80 as emulsifier	Yellow Green	W.D	L			
	NET Turmeric 10 L	E 100 C.I. Number 75300	Dispersion, approx. 10% Curcumin, based on modified starch and 0,1% potassium sorbate as preservative, suitable for beverages	Yellow Green	W.D	L			
	NET Turmeric 10 P	E 100 C.I. Number 75300	Powder, approx. 10% Curcumin, with modified starch and 0,1% potassium sorbate as preservative, suitable for beverages	Green Yellow	W.D	P			
	Curcuma Powder	E 100 C.I. Number 75300	Powder, approx. 90% Curcumin	Green Yellow	O.S	L			
	Marigold L 3	E 161 b	Emulsion, approx. 0.3% Lutein, citric acids esters from mono- and diglycerides of fatty acids as emulsifier	Orange Yellow	W.D	P			
	Marigold SP 1,5%	E 161 b	Approx. 1,5% Lutein, with modified starch	Orange Yellow	W.D	P			
	Lutein	E 161b C.I. Number 75125	Approx. 1% Lutein	Orange Yellow	W.D	P			
	Riboflavin	E 101 (i)	Approx. 99% Riboflavin	Banana	W.S	L			
	Beta Carotene Emulsion 5% LS	E 160 a (ii) C.I. Number 40800	Emulsion, approx 5% natural beta carotene, citric acids esters from mono - and diglycerides of fatty acids as emulsifier, higher antioxydant content	Egg	W.D	L			
	Beta Carotene Emulsion 5%	E 160 a (ii) C.I. Number 40800	Emulsion, approx. 5% Natural beta carotene, citric acids esters from mono- and diglycerides of fatty acids as emulsifier, lower antioxydant content	Egg	W.D	L			
	Betanat OS 30	E 160 a (ii) C.I. Number 40800	Approx. 30% Natural beta carotene, suspension in sunflower oil	Vanilla	W.D	L			
	Beta Carotene OS 1	E 160 a (ii) C.I. Number 40800	Approx. 0.5% Natural beta carotene, diluted with vegetable oil	Vanilla	O.S	P			
	Betanat 10 CWDC/Y	E 160 a (ii) C.I. Number 40800	Approx. 10% Natural beta carotene, with modified starch	Vanilla	W.D	P			

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poor moderate good

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Classic – E Numbers (cont.)									
	BETANAT 10 CWDC/O	E 160 A (II) C.I. Number 40800	Approx. 10% Natural beta carotene, with modified starch	Orange Yellow	W.D	P	good	good	good
	Beta Carotene 1 CWDC	E 160 a (ii) C.I. Number 40800	Approx. 1% Natural beta carotene with maltodextrine, modified starch and 0,05% potassium sorbate as preservative	Vanilla	W.D	P	good	good	good
	Beta Carotene 1 CWDC/GA	E 160 Iii) C.I. Number 40800	Approx. 1% Natural beta carotene with gum arabic and maltodextrin	Orange Yellow	W.D	P	good	good	good
Clean label									
	Paprika – Oleoresin OS 40	Colour intensive Plant extract	Oil, approx. 40.000 C.U., With vegetable oil as carrier	Brilliant	O.S	L	moderate	good	poor
	Paprika – Emulsion EA	Colour intensive Plant extract	Emulsion, approx. 5.400 C.U., Citric acidesters of mono- and diglycerides of fatty acids as emulsifier	Brilliant	W.D	L	moderate	good	poor
	Bell Pepper - Emulsion AS 5.5 Pres.	Colour intensive Plant extract	Emulsion, approx. 5.500 C.U., Modified starch as emulsifier and 0,1% potassium sorbate as preservative, acid stable and suitable for gelatin foam	Red Orange	W.D	L	moderate	poor	good
	Paprika Emulsion EA 17	Colour intensive Plant extract	Emulsion, approx. 17.000 C.U., Citric acids esters from mono- and diglycerides of fatty acids as emulsifer	Brilliant	O.S	L	moderate	good	good
	Bell Pepper – Emulsion BS 5,5 Pres.	Colour intensive Plant extract	Emulsion, approx. 5.500 C.U., Modified starch as emulsifier and 0,1% potassium sorate as preservative, acid stable and suitable for soft drinks	Red Orange	O.S	L	moderate	poor	good
	Paprika Emulsion 5500 Pres.	Colour intensive Plant extract	Emulsion, approx. 5.500 C.U., Modified starch as emulsifier and 0,1% potassium sorbate as preservative, better light stability	Red Orange	W.D	L	good	good	good
	Bell Pepper - Emulsion T 16	Colour intensive Plant extract	Emulsion, approx. 16.500 C.U., Polysorbate 80 as emulsifier, acid stable	Brilliant	W.D	L	moderate	good	good
	Paprika Emulsion DF	Colour intensive Plant extract	Sobrtol syrup, starch modified extract from paprika	Orange Red	W.D	L	good	good	good
	Paprika Extract SP 30	Colour intensive Plant extract	Approx. 30.000 Colour units, with maltodextrine and modified starch	Orange	W.D	P	good	poor	good

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Classic – E Numbers									
	Annatto – Yellow L 4	E 160 b C.I. Numb er 75120	Approx. 4% Norbixin, in alkaline solution	Brown Orange	W.S	L	good	good	poor
	Annatto – Yellow AS 2,5	E.160 B C.I. Number 75120	Approx. 2.5% Norbixin, containing polysorbate 80, acid stable!	Brown Orange	W.S	L	good	good	good
	Annatto Yellow OS 4	E 160 b C.I. Number 75120	Approx. 4% Bixin	Brown Orange	O.S	L	good	good	good
	Annatto – Yellow P 14	E 160 b C.I. Number 75120	Approx. 14% Norbixin, with maltodextrine as carrier	Brown Orange	W.S	L	good	good	poor
Clean label									
	Malt Extract L 2	Colour intensive Plant extract	Extract of roasted barley malt, approx. 12.000 Ebc	Cappuccino	W.S	L	good	good	good
	Malt Extract SP	Colour intensive Plant extract	Extract of roasted barley malt, approx. 22.000 Ebc	Cappuccino	W.S	P	good	good	good
	Caramel Sugar L 15	Colour intensive Plant extract	Obtained from burnt sugar, approx. 15.000 Ebc	Coffee	W.S	L	good	good	good
	Caramel Sugar Syrup SP	Colour intensive Plant extract	Obtained from burnt sugar, approx. 16.000 Ebc, with maltodextrine	Coffee	W.S	P	good	good	good
	Plantextract Type Sandlalwood	Colour intensive Plant extract	Mixture of different plant extracts, filming properties	Red Brown	W.S	L	good	good	good
Classic – E Numbers									
	Caramel S1400	E 150 a	Plain caramel, approx. 13,000 - 15,000 Ebc	Coffee	W.S	L	good	good	good
	Caramel B	E 150 b	Caustic sulfit caramel, approx. 20,000 Ebc	Coffee	W.S	L	good	good	good
	Caramel S5000	E 150 c	Ammonia caramel, approx. 38,000 - 40,000 Ebc	Coffee	W.S	L	good	good	good
	Caramel Single strength	E 150 d	Sulphite ammonia caramel, approx. 26,000 - 28,000 Ebc	Coffee	W.S	L	good	good	good
	Caramel S8000	E 150 c	Ammonia caramel, approx. 46,000 - 49,000 Ebc	Coffee	W.S	L	good	good	good
	Caramel Double strength	E 150 d	Sulphite ammonia caramel, approx. 48,000 - 50,000 Ebc	Coffee	W.S	L	good	good	good
	Caramel A500	E 150 d	Sulphite ammonia caramel, approx. 50,000 Ebc	Coffee	W.S	P	good	good	good
	Carbon Black	E 153	Carbonized vegetable material, min. 17%, With glycerine	Black	W.D	L	good	good	good

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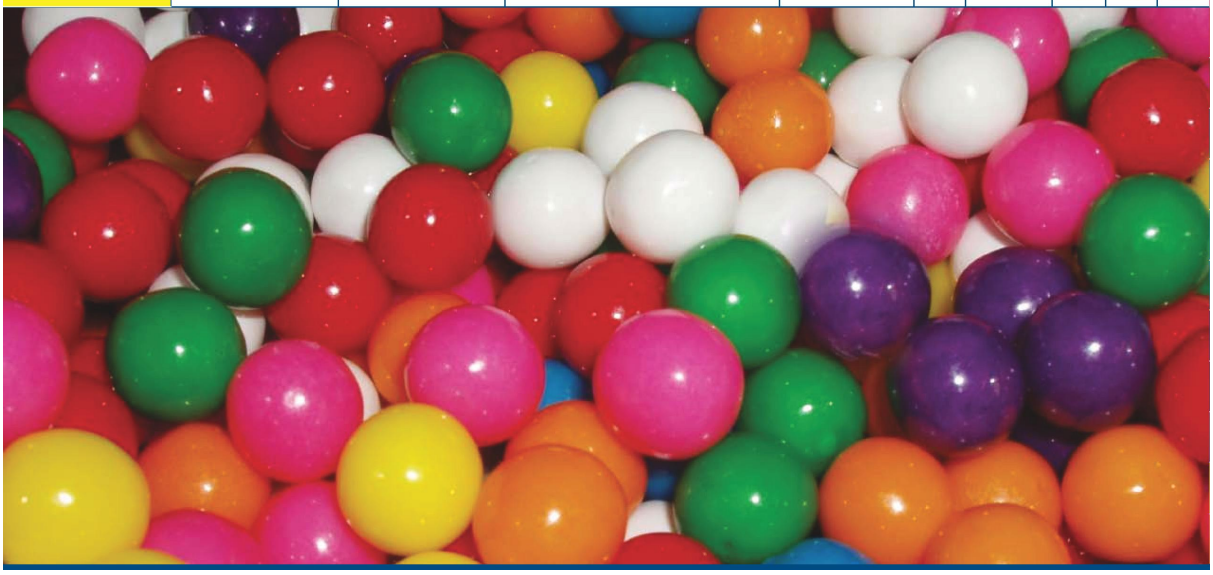
Classic – E Numbers (cont.)									
	Carbon Black	E 153	Carbonized vegetable material	Black	O.D	P	good	good	good
	Tio2	E 171	Tio2	White	O.D	P	good	good	good
	Tio2	E 171	50% Tio2 50% slycerine	White	W.D	L	good	good	good
Clean Label									
	Beta-Carotene Clear Emulsion	E160 a	Natural Beta-carotene emulsion, design to deliver colour without opacity,	Translucent Yellow	W/S	L	good	good	good
	Apo-8-Carotene Clear Emulsion	E160 a	Natural Apo-8-carotene emulsion, design to deliver colour without opacity,	Yellow Orange	W/S	L	good	good	good
	Paprika Clear Emulsion	Colour intensive plant extract	Natural Paprika emulsion, design to deliver colour without opacity	Orange	W/S	L	good	good	good
	Turmeric Clear Emulsion	E100	Natural Turmeric emulsion, design to deliver colour without opacity	Yellow Orange	W/S	L	good	good	poor



Colour Synthetic

poor moderate good

Colour Reference	Product Name	E Number	CI Number	Light	Temp	Acid	Alkali
Edicol Water Soluble Colours - EC Water Soluble Dyes (Powders or Granules)							
	Tartrazine	E-102	19140	good	good	good	good
	Quinoline Yellow	E-104	47005	moderate	good	good	poor
	Sunset Yellow	E-110	15985	good	good	good	moderate
	Carmoisine	E-122	14270	good	good	moderate	moderate
	Amaranth	E-123	16185	good	good	good	moderate
	Ponceau 4R	E-124	16255	good	good	good	poor
	Erythrosine	E-127	45430	poor	good	moderate	moderate
	Red 2G		18050	good	good	good	good
	Allura Red	E-129	16035	good	good	good	moderate
	Brown HT	E-155	20285	good	good	good	poor
	Green S	E-142	44090	moderate	good	good	moderate
	Brilliant Blue	E-133	42090	good	good	good	good
	Patent Blue V (Na)	E-131	42051	good	good	poor	good
	Patent Blue V (Ca)	E-131	42051	good	good	poor	good
	Indigo Carmine	E-132	73015	poor	poor	poor	poor
	Black PN	E-151	28440	good	good	good	poor
FD&C Water Soluble Dyes							
	FD&C Yellow 5	E-102	19140	good	good	good	good
	FD&C Yellow 6	E-110	15985	good	good	good	good

Colour Synthetic

poor moderate good

Colour Reference	Product Name	E Number	CI Number	Light	Temp	Acid	Alkali
FD&C Water Soluble Dyes (cont)							
	FD&C Red 3	E-127	45430	poor	good	moderate	moderate
	FD&C Red 4		14700	good	good	good	moderate
	FD&C Red 40	E-129	16035	good	good	moderate	moderate
	FD&C Blue 1	E-133	42090	good	good	good	good
	FD&C Blue 2	E-132	73015	poor	poor	poor	poor
Lake Colours - EC Lakes - Low, Mid, and High Dyes							
	Tartrazine	E-102	19140:1	good	good	poor	poor
	Quinoline Yellow	E-104	47005:1	good	good	poor	poor
	Sunset Yellow	E-110	15985:1	good	good	poor	poor
	Carmoisine	E-122	14270:1	good	good	poor	poor
	Amaranth	E-123	16185:1	good	good	poor	poor
	Ponceau 4R	E-124	16255:1	good	good	poor	poor
	Erythrosine	E-127	45430:1	poor	good	poor	poor
	Brilliant Blue Lake	E-133	42090:1	good	good	poor	poor
	Indigo Carmine Lake	E-132	73015:1	poor	poor	poor	poor
Lake Colours - FD&C Lakes							
	FD&C Yellow 5	E-102	19140:1	good	good	poor	poor
	FD&C Yellow 6	E-110	15985:1	good	good	poor	poor
	FD&C Red 40	E-129	16035:1	good	good	poor	poor