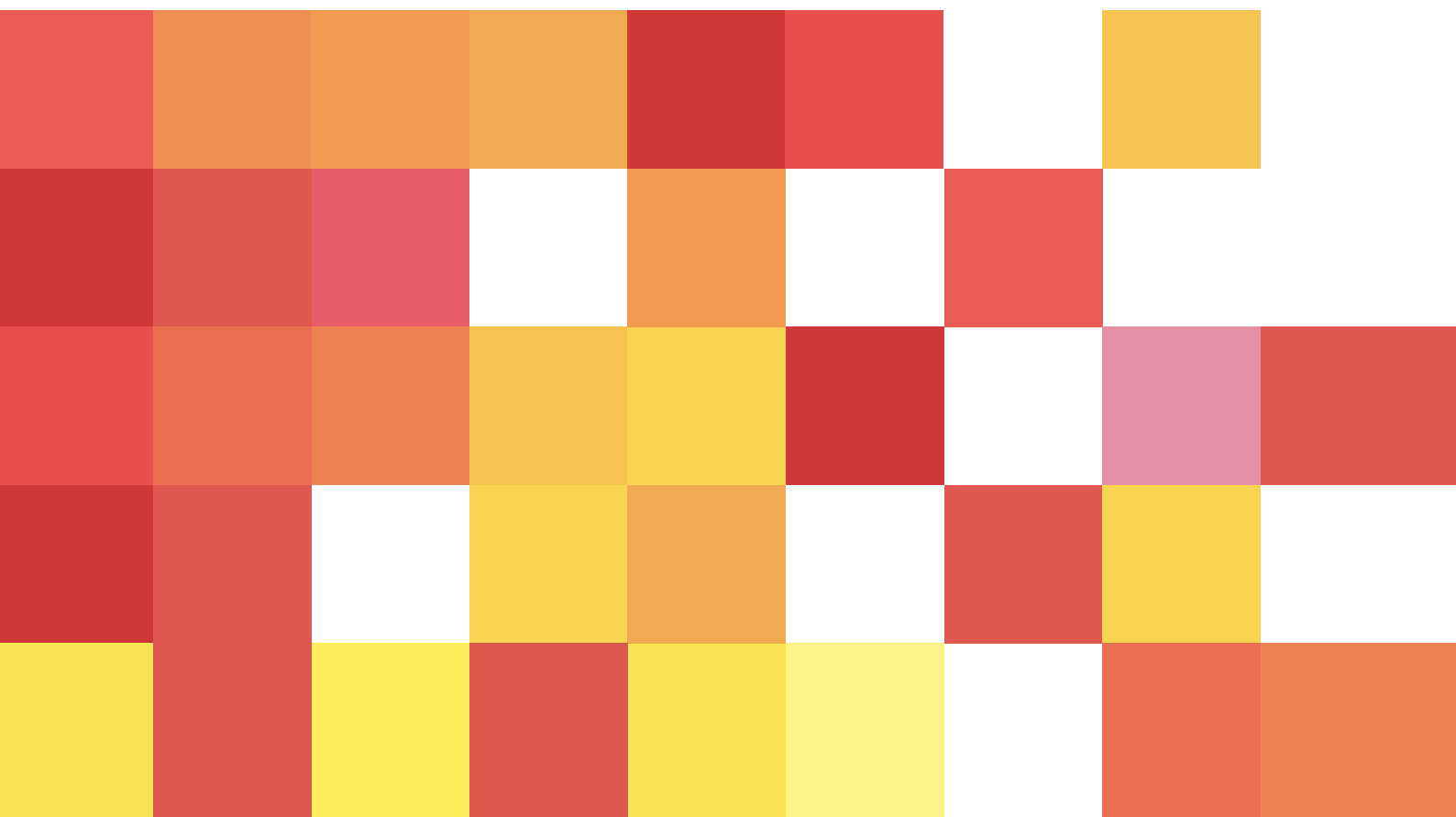


BIOCONCOLORS



Natural Colors that
Stimulate the Senses
and Drive Sales

Anthocyanins, Betanin, Bixin & Norbixin, Carmine, Carthamidin,
Carotenoids, Chlorophyll, Curcumin, Phycobilin, Vegetable Carbon.





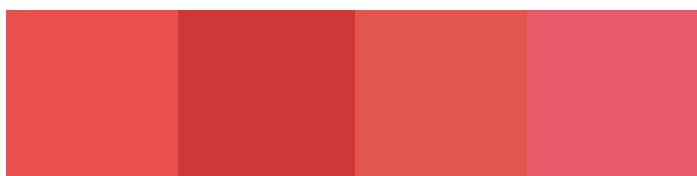
Company Introduction

BioconColors is a leading colorant company specialized in the production and formulation of natural colors and Colouring Foods based on vegetable and juice concentrates. Since 1983 we have been supplying natural color solutions to the food, beverage, cosmetic and pharmaceutical industries.

Our core expertise is the creation of process-specific color formulations based on 100% naturally sourced raw materials. With our own production and formulating facilities we have in-depth knowledge and expertise of the raw materials, the sourcing, extraction and purification technologies required to create high-end liquid and powder based natural colorants.

If you are aiming to replace artificial colors, or to switch to an alternative natural color formulation, our food coloring specialists can assist you throughout this process. From color matching, stability testing all the way through to regulatory support.

Whether it comes to emulsions or suspensions, water-soluble or oil-soluble colorings, powder or spray-dried compositions or special mixtures, we develop natural color solutions for your application to perform in the best possible multi-sensory way.



MEAT & FISH & MEAT ALTERNATIVES

Product Type	Concentration %	Color Shade	Stability		Solubility	
			pH	Heat	Dispersible	Soluble in:
PROCESSED MEAT						
Carmine WS powder	20 - 60	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	----	Water
Carmine lake powder	50 - 60	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	Oil / Fat	Alkali
Carmine high tinctorial powder	27 - 60	Bright red bluish to strawberry red	3.5 - 8.0	Excellent	Oil / Fat	Alkali
Carmine liquid	1 - 20	Bright red bluish to strawberry red	3.5 - 8.0	Excellent	----	Water
Paprika oleoresin	40,000 - 120,000 C.U.	Orange to dark red	3.0 - 8.0	Good	----	Oil
Carmine & annatto liquid blend	Formulations	Orange - Bright strawberry red	4.0 - 13.0	Good	----	Water
CASING						
Carmine WS powder	20 - 60	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	----	Water
Carmine oil suspension	5 - 10	Reddish	3.5 - 8.0	Excellent	Oil / Fat	----
Annatto - Norbixin liquid	1 - 5	Yellow to orange to brownish	5.0 - 12.0	Good	----	Water
Annatto - Bixin - Norbixin emulsion	1 - 3.5	Yellow to orange brownish	3.0 - 8.0	Good	Oil / Fat	Water
Carmine & annatto emulsion	Formulations	Red brownish	5.0 - 12.0	Good	Oil / Fat	----
BREADCRUMB						
Annatto - Norbixin liquid	1 - 5	Yellow to brownish orange	5.0 - 12.0	Good	----	Water
Annatto - Bixin emulsion	4 - 8	Orange reddish	3.0 - 8.0	Good	Water	----
Paprika oleoresin	40,000 - 120,000 C.U.	Orange	3.0 - 8.0	Good	----	Oil
Turmeric emulsion	5 - 10	Bright yellow	3.0 - 8.0	Excellent	Oil / Fat	Water
SURIMI						
Annatto - Norbixin liquid	1 - 5	Yellow to orange to brownish	5.0 - 12.0	Good	----	Water
Carmine & annatto liquid blend	Formulations	Orange - Red	5.0 - 12.0	Good	---	Water
SHRIMPS						
Carmine & annatto liquid blends	Formulations	Orange - Red	5.0 - 12.0	Good	----	Water



DAIRY

Product Type	Concentration %	Color Shade	Stability		Solubility	
			pH	Heat	Dispersible	Soluble in:
YOGHURT / MILK DRINK / CUSTARD / ICE CREAM						
Carmine WS liquid	1 - 20	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	---	Water
Carmine acid stable liquid	1 - 7	Orange - Red yellowish - Red bluish	3.0 - 8.0	Excellent	----	Water
Annatto WS powder	5 - 1	Yellow - Orange	4.0 - 13.0	Good	----	Water
Annatto WS liquid	1 - 5	Yellow	4.0 - 13.0	Good	----	Water
Carmine & annatto liquid blend	Formulations	Peach - Yellow/orange	4.0 - 13.0	Good	----	Water
Turmeric emulsion	5 - 10	Bright yellow	3.0 - 8.0	Excellent	Oil / Fat	Water
Black carrot powders	8 - 12	Light strawberry pink - pink-bluish	3.0 - 7.0	Good	----	Water
Beetroot powders	3.3 - 3.9	Light pink	3.5 - 8.0	Good	----	Water
Purple sweet potato	10	Pink - red bluish	3.0 - 8.0	Low	----	Water
Safflower powder	27 - 33	Bright yellow	3.0 - 8.0	Excellent	----	Water
CHEESE / PROCESSED CHEESE / COATING						
Annatto WS liquid	1 - 5	Yellow	4.0 - 13.0	Good	----	Water
Annatto oil suspension	2 - 10	Yellow - Orange	3.0 - 8.0	Good	Oil / Fat	----
ICE CREAM / FROZEN YOGURT						
Carmine acid stable liquids	3 - 7	Light - dark pink	3.0 - 8.0	Excellent	----	Water
Carmine liquids	1 - 20	Light - dark pink - purple	3.5 - 8.0	Excellent	----	Water
Annatto - Bixin - Norbixin emulsions	2.5 - 3.5	Light - dark yellow	3.0 - 8.0	Good	----	Water
Annatto - Norbixin liquids	1 - 5	Light - dark yellow	4.0 - 13.0	Good	----	Water
Annatto oil suspension	2 - 10	Peach	3.0 - 8.0	Good	Fat	----
Carmine & annatto liquid blends	Formulations	Yellow - orange	4.0 - 13.0	Good	----	Water
Beta Carotene powder	1	Light - dark yellow - peach	3.0 - 8.0	Good	----	Water
Turmeric emulsions	5 - 10	Bright yellow	3.0 - 8.0	Excellent	----	Water
Black carrot powders	8 - 12	Light - dark purple	3.0 - 7.0	Good	----	Water
Purple sweet potato	10	Pink - red bluish	3.0 - 8.0	Good	----	Water
Beetroot powders	3.3 - 3.9	Pinkish - purple	3.5 - 8.0	Low	----	Water
Chlorophyll liquids	10	Pinkish - purple	3.5 - 8.0	Good	----	Water
Spirulina powders	5 - 10	Light - dark blue	3.5 - 8.0	Low	----	Water
Carbon black liquids	15	Gray - intense black	3.5 - 8.0	Excellent	----	Water



OIL & FAT

Product Type	Concentration %	Color Shade	Stability		Solubility	
			pH	Heat	Dispersible	Soluble in:
OIL / SALAD DRESSING / MAYONNAISE						
Annatto oil solubles	0.2 - 0.45	Yellow	3.0 - 8.0	Good	Fat	Oil
Annatto oil	0.8 - 1	Yellow - light orange	3.0 - 8.0	Good	Fat	Oil
Annatto oil suspensions	2 - 10	Yellow - orange	3.0 - 8.0	Good	Fat	----
Annatto & turmeric oil suspensions	Formulations	Yellow	3.0 - 8.0	Good	Oil / Fat	----
Beta Carotene suspensions	30	Yellow - orange	3.0 - 8.0	Good	----	Oil
MARGARINE / SPREAD / SHORTENING						
Annatto oil suspension	2 - 10	Yellow - Orange	3.0 - 8.0	Good	Oil / Fat	----
Turmeric emulsion	5 - 10	Bright yellow	3.0 - 8.0	Excellent	Oil / Fat	Water
Annatto & turmeric oil suspension	Formulations	Light yellow	3.0 - 8.0	Good	Oil / Fat	----

SNACK & SAVORY

EXTRUDED & PELLET SNACK / CHEESE SNACK						
Carmine lake powder	50 - 60	Pink - strawberry red - red bluish	3.5 - 8.0	Excellent	----	Water
Annatto WS liquid	1 - 5	Yellow - Orange	3.5 - 8.0	Excellent	----	Water
Annatto oil suspension	2 - 10	Yellow - Orange	3.5 - 8.0	Excellent	Oil / Fat	Water
SEASONING						
Carmine WS powder	20 - 60	Red bluish to pink to strawberry red	3.5 - 13.0	Excellent	----	Water
Carmine lake powder	50 - 60	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	----	Alkali
Annatto oil suspension	2 - 10	Yellow - Orange	3.0 - 8.0	Good	Oil / Fat	----
Paprika oleoresin	40,000 - 120,000 C.U.	Orange	3.0 - 8.0	Good	----	Oil
Beetroot powders	3.3 - 3.9	Pink - strawberry red	3.5 - 8.0	Low	----	Water



CONFECTIONERY

Product Type	Concentration %	Color Shade	Stability		Solubility	
			pH	Heat	Dispersible	Soluble in:
HARD & SOFT CANDY / COATING						
Beta Carotene powders	1	Light - bright yellow	3.0 - 8.0	Good	----	Water
Safflower powders	27 - 33	Bright yellow	3.0 - 8.0	Good	----	Water
Turmeric emulsions	5 - 10	Bright yellow	3.0 - 8.0	Good	----	Water
Carmine & annatto liquid blends	Formulations	Peach - Orange	4.0 - 13.0	Good	----	Water
Annatto - Bixin - Norbixin emulsions	2.5 - 3.5	Dark yellow - orange	3.0 - 8.0	Good	Fat	Water
Black carrot powders	8 - 12	Light - dark pink	3.0 - 7.0	Good	----	Water
Carmine liquids	1 - 20	Pink - red - light to dark purple	3.0 - 8.0	Excellent	----	Water
Carmine & turmeric liquid blends	Formulations	Light - dark red	3.0 - 8.0	Good	----	Water
Chlorophyll liquids	10	Light - dark green	3.5 - 8.0	Good	----	Water
Spirulina powders	5 - 19	Light - dark blue	3.5 - 8.0	Low	----	Water
Carbon black powders	95 - 100	Gray - dark black	3.5 - 8.0	Excellent	Oil/Water	----
Carbon black liquids	15	Gray - dark black	3.5 - 8.0	Excellent	Oil	Water
CHOCOLATE						
Carmine oil suspension	5 - 10	Pink - Strawberry red	3.0 - 8.0	Good	Fat	----
Carmine lake fine powder	50 - 52	Purple	3.5 - 8.0	Good	Fat	----
Turmeric emulsion	5 - 10	Bright yellow	3.0 - 8.0	Good	Fat	Water
Beta carotene suspensions	30	Yellow - orange	3.0 - 8.0	Good	----	Oil
Annatto - Bixin emulsions	2.5	Yellow - orange	3.0 - 8.0	Good	Fat	----

BAKERY & PASTRY

CREAM / FRUIT FILLING / PUDDING / CAKE POWDER						
Carmine WS powder	20 - 60	Pink - Strawberry red	3.5 - 13.0	Excellent	----	Water
Carmine acid stable liquid	1 - 7	Orange - Red yellowish - Red bluish	3.0 - 8.0	Excellent	----	Water
Carmine WS liquid	1 - 20	Red bluish to pink to strawberry red	3.5 - 9.0	Excellent	----	Water
Annatto WS liquid	1 - 5	Yellow - Orange	4.0 - 13.0	Good	----	Water
Carmine & annatto liquid blend	Formulations	Peach - Orange	4.0 - 13.0	Good	----	Water
Annatto WS powder	5 - 15	Yellow - Orange	4.0 - 13.0	Good	----	Water
Carbon black powders	95 - 100	Gray - intense black	3.5 - 8.0	Excellent	Water	----



BEVERAGES

Product Type	Concentration %	Color Shade	Stability		Solubility	
			pH	Heat	Dispersible	Soluble in:
ALCOHOLIC BEVERAGE / SOFT DRINK / ENERGY DRINK / FRUIT DRINK / SYRUP / FRUIT PREPARATION						
Carmine acid stable powders	50 - 9	Red yellowish - Red bluish	3.0 - 8.0	Excellent	----	Water
Carmine acid stable liquids	1 - 7	Orange - Red yellowish - Red bluish	3.0 - 8.0	Excellent	----	Water
Annatto - Bixin - Norbixin emulsions	1 - 3.5	Yellow to orange brownish	3.5 - 8.0	Good	Water	Water
Beta carotene powder	1 - 10	Yellow - orange	3.0 - 8.0	Good	----	Water
Black carrot powders	8 - 12	Light to dark red - magenta	3.0 - 7.0	Good	----	Water
Beetroot powders	3.3 - 3.9	Pink - red	3.5 - 8.0	Low	----	Water
Safflower powder	27 - 33	Bright yellow	3.0 - 8.0	Excellent	----	Water
Purple sweet potato	10	Pink - red bluish	3.0 - 8.0	Good	----	Water

CONCENTRATES FOR FORMULATIONS

CARMINE CONCENTRATES FOR COLOR AND FLAVOR FORMULATIONS						
Crystallized and spray dried powder	90 - 95	Orange	3.0 - 8.0	Excellent	----	Water
Carmine acid stable powder	50 - 90	Red yellowish - Red bluish	3.0 - 8.0	Excellent	----	Water
Carmine acid stable liquid	1 - 7	Orange - Red yellowish - Red bluish	3.0 - 8.0	Excellent	----	Water
Carmine WS powder	20 - 60	Pink - Strawberry red	3.5 - 8.0	Excellent	----	Water
Carmine lake powder	50 - 60	Red bluish to pink to strawberry red	3.5 - 8.0	Excellent	Oil / Fat	Alkali
Carmine lake powder	50 - 52	Purple	3.5 - 8.0	Excellent	----	Alkali
Carmine high tinctorial powder	27 - 60	Bright red bluish to strawberry red	3.5 - 8.0	Excellent	Oil / Fat	Alkali
Carmine low bleeding formulation	3 - 10	Pink - Bright red	3.5 - 8.0	Excellent	Water	----
ANNATTO CONCENTRATES FOR COLOR AND FLAVOR FORMULATIONS						
Norbixin powder	35 - 45	Yellow - Orange	3.0 - 13.0	Good	----	Alkali
Bixin powder	27 - 32	Yellow - Orange	3.0 - 13.0	Good	----	Alkali
Annatto oil suspension	2 - 10	Yellow - Orange	3.0 - 8.0	Good	Fat	Oil
Annatto oil soluble	0.2 - 0.45	Yellow - Orange	3.0 - 8.0	Good	----	Oil / Fat
Annatto - Bixin - Norbixin emulsion	3 - 8	Reddish orange	3.0 - 8.0	Good	Oil	Water



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