

CURCUMIN EXTRACT

Code: **NC1050**

Tariff Code 3203 00 10 00

Description	A yellow/Orange liquid emulsion of turmeric extracted from the rhizomes of Turmeric (<i>Curcum longa</i>) and rendered water soluble through the addition of Polysorbate 80 and Monopropylene Glycol
Appearance	Dark Orange/Brown transparent liquid
Uses	Food/Beverage Food colour compliant with the specific purity criteria set out in Commission Regulation (EU) 231/2012 Not for retail sale, for further processing only
Usage rate	As required according to local legislation
Product identification	Colour: Curcumin or E100
E number	E100
Ingredients	Polysorbate 80 (E433), Monopropylene Glycol (E1520), Curcumin (E100)
Botanical Name	Turmeric (<i>Curcum longa</i>)
	Suitable for: Vegetarians Vegans Coeliacs Kosher (Certified) Halal (Certified)
	NOT suitable for: Organic
	GMO Free Non-irradiated Palm Free

Major Allergens

Celery and its derivatives	Absent
Crustaceans and their derivatives	Absent
Egg and its derivatives	Absent
Fish and their derivatives	Absent
Gluten	Absent
Lupins and their derivatives	Absent
Milk and its derivatives	Absent
Molluscs and their derivatives	Absent
Mustard and its derivatives	Absent
Nuts, their oils and other derivatives	Absent
Peanuts, their oils and other derivatives	Absent
Sesame seeds, their oils and other derivatives	Absent
Soya and its derivatives	Absent
Sulphur dioxide	Absent
(and sulphites at levels above 10mg/kg or 10mg/l, expressed as SO ₂)	

Chemical

pH	7 - 8	Verification using pH meter
Lead	10 ppm	max
Arsenic	3 ppm	max
Mercury	1 ppm	max
Cadmium	1 ppm	max
Sudan I	<50 ppb	
Sudan II	<50 ppb	

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Sudan III	<50 ppb
Sudan IV	<50 ppb
Rhodamine B	<50 ppb
Para Red	<50 ppb
Butter Yellow	<50 ppb
Sudan Red G	<50 ppb
Sudan Red VII B	<50 ppb
Sudan Red B	<50 ppb
Orange II	<50 ppb
Bixin	<50 ppb
Nitroaniline	<50 ppb
Orange OT	<50 ppb
Sudan Black B	<50 ppb
Norbixin	<500 ppb
Sudan Orange G	<50 ppb
Metanil Yellow	<50 ppb
Toluidine Red	<50 ppb
Auramine O	<50 ppb
Fast Garnet	<50 ppb
Illegal Dyes	<50 ppb

Notes Nutritional values based upon calculation only.
Heavy metals and solvent residues comply with the Regulation (EC) No 231/2012 and successive updates

Nutrition

Energy kJ	kCal	Carbohydr.	Sugars	Fibre	Sodium	Salt
1761	419	40.3 g/100g	0.0 g/100g	0.0 g/100g	0.0 mg/100g	0.0 g/100g
Fat	Saturated	Unsaturat	Polyunsat.	Monounsatur.	Trans	Protein
15.6 g/100g	7.8 g/100g	7.8 g/100g	1.8 g/100g	6.0 g/100g	0.0 g/100g	0.1 g/100g

Nutritional results are based upon calculation only, not specific product testing, unless otherwise notified.

Microbiological

Micro Testing Required	Med Risk - as per Schedule	Micro Testing Schedule (months)	12
Aerobic Colony Count	1,000 cfu/g max		
Yeasts	100 cfu/g max		
Moulds	100 cfu/g max		
Enterobacteriaceae	<10 cfu/g max		
E. coli	<10 cfu/g max		
Salmonella	Not Detected in 25g max		
Listeria	Not Detected in 25g max		

Physical

Solubility	Water
Absorption in Acetone	75 - 88
DEcmc	< 1.5 vs STD @ 0.1% in distilled water
Sieve Mesh 1mm	100% Passes
Pigment Content	4.7 - 5.5%
Nanometre: 420	
Organoleptic	Passes

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Shelf life 12 Months on opening: 3 Months
Storage store in a cool dry place, away from sunlight and strong odours
Packaging Food grade plastic jerries

All of our products are designed to be food safe, and where indicated on the label; can be stored at ambient temperature without concern. However, to preserve the optimum organoleptic and colour performance of our liquid colour and extract products to the end of their stated shelf life.

We would recommend storing under chilled conditions where possible.

Handling This product is safe for the intended use. Avoid ingestion or direct contact by applying suitable protective measures and personal hygiene. For full safety information and necessary precautions, please refer to the Material Safety Data Sheet

This product has been assessed by our regulatory team for use and sale in the following geographical regions: EU, Finland, Serbia, USA. If the region in which the use or sale is not listed, then it means that the assessment has not been undertaken by Plant-Ex, and it is the responsibility of the customer to ascertain.

Legal Notice

The information given in this publication is based on our current knowledge and experience, and may be used at your discretion and risk. It does not relieve you from carrying out your own precautions and tests. We do not assume any liability in connection with your product or its use. You must comply with all applicable laws and regulations, and observe all third party rights.

Specifications issued with prefix 'DEV' are in development, are subject to change and should not be relied upon for production or commercial purposes until verified by Plant-Ex Ingredients Ltd

CUSTOMER APPROVAL

Approved on behalf of (Customer Name)..... by position..... Please sign date and return a scanned copy this spec to qa@plant-ex.com within 14 days after which time approval will be assumed

SHELF LIFE

The shelf life that Plant-Ex recommends for our products is based on unopened packages stored as per our recommendations and our policy ref QM5-514.

Shelf life upon opening depends greatly on the type of product, whether there is only little or a lot of headspace in the storage container, and how the customer has handled and stored the product, which means that it is less easy to predict the shelf life once opened.

The two key parameters which can be affected by opened containers is oxidation of the product, and provision of oxygen to encourage microbial growth. To generalise, shelf life can be reduced by about half once opened and part used. Our specifications recommend to use within one month of opening so as to encourage use, however a customer storing the product appropriately and hygienically could achieve a greater period of usage.

Storage within an ambient temperature range is perfectly reasonable where a product is marked as such, though it should be noted that at temperatures above 8C, oxidation will occur more rapidly. Therefore, where available, storage under cooler conditions, and with the correct handling will result in customers gaining further usage of the products supplied.

MICROBIOLOGICAL TESTING

Plant-Ex categorises product testing for microbiological compliance by the process of risk assessment, taking into account processing parameters and biostatic/biocidal co-ingredients of a recipe to determine the associated risk, based upon prior experience and testing. The product specification will detail if the material is subject to a Microbiological test on an "Every batch" basis, or the alternative frequency of testing.

PACKAGING

Packaging is purchased according to our policy ref QM5-550 which details that the product must be compliant to EU Regulation 2020/1245 and 1935/2004. of testing.

HANDLING

Plant-Ex recommend operating to GMP standards of practice when handling our products. In the case of liquid materials – we would always recommend shaking the container for two minutes to assure that any precipitation over time is reversed. All powder containers should be re-sealed to avoid moisture ingress.

Plant- Ex Ingredients Ltd. Unit 7d , Access 18 Kings Weston Lane. Avonmouth. BS11 8HT