



# PRODUCT SPECIFICATION

Effective Date: October 24, 2025

Reference: TDS-2025-0159

## OVERVIEW

<b>Item Name:</b>	ZMCA-3F8
<b>Legal Name:</b>	Vanilla extract (EC 1334/2008, 21 CFR 169.176)
<b>Product Name:</b>	Natural Vanilla Extract, 3-Fold (Type 8)
<b>Intended Use:</b>	Food flavoring
<b>Recommended Use Level:</b>	According to need
<b>Country of Origin:</b>	Tanzania

## COMPOSITION

Parameter	Description
Vanilla Bean Extractives (Dissolved)	3 units; equivalent to 300g of vanilla beans at $\leq 25\%$ moisture content dissolved in 1L of aqueous solution.
Aqueous Solution (% v/v at 20C)	Ethanol (ENA) in aqua, $>35\%$ v/v
Components	Flavouring preparations
<b>Botanical Species</b>	Vanilla Planifolia

## PHYSICAL CHARACTERISTICS

Parameter	Description
Solubility	Soluble in water, in milk, and in most aqueous organic solvents (at 50% to 70% v/v)
Sedimentation	During storage, some of the less soluble vanilla extractives may precipitate into sediment. This occurs in many natural extracts and it has no effect on the flavour quality of the vanilla; shake well before using.
Appearance	Dark amber brown opaque liquid
Aroma	Characteristic vanilla

## STORAGE & SHELF LIFE

Parameter	Description
Ideal Storage Conditions	Store in a cool (18-25°C), dry ( $<70\%$ RH) place. Keep the product tightly sealed and away from exposure to heat and sunlight. Do not store below 4°C.
Shelf Life	Forty-eight (48) months stored under ideal conditions. After opening, close firmly and use immediately. Slight product colour changes will not affect sensorial or technical properties.

## PHYSICOCHEMICAL INFORMATION

Parameter	Specification (Range)	Tested Method
Vanillin Content (mg/mL)	5.90 ± 1.50	HPLC (LC-UV/DAD)
Ethanol (% v/v at 20°C)	39.0 ± 4.0	ISO 4801:1979
Specific Gravity (at 20°C)	0.9681 ± 0.040	Relative density by instrumentation (water pycnometry)
Refractive Index (at 20°C)	1.3820 ± 0.020	Digital Refractometer

## MICROBIAL INFORMATION

Parameter	Limits	Tested Method
Total Plate Count (cfu/ml)	<5,000	ISO 4833-1
Yeast & Moulds (cfu/ml)	<100	ISO 21527-1&2
Salmonella spp. (cfu/g)	Absent in 25g	ISO 6579-1
Escherichia coli (cfu/g)	Absent	ISO 4832

## CONTAMINANTS & PESTICIDES INFORMATION

Parameter	Description
Heavy metals (arsenic, cadmium, lead, mercury) [mg/kg]	In accordance with Regulation (EC) No 2023/915 of 25 April 2023 as amended.
Mycotoxins [µg/kg]: aflatoxin B1 and sum of aflatoxins (B1, B2, G1, G2 and ochratoxin A)	In accordance with Regulation (EC) No 2023/915 of 25 April 2023 as amended.
Pesticides, herbicides and residue of plant protection products [mg/kg]	In accordance with Regulation (EC) No 396/2005 of 23 February 2005 as amended.
Polycyclic Aromatic Hydrocarbons (PAHs) [µg/kg]: benzo(a) pyrene and sum of PAHs (benzo(a) pyrene, benzo(a) anthracene, benzo(b) fluoranthene and chrysene)	In accordance with Regulation (EC) No 2023/915 of 25 April 2023 as amended.
Ethylene oxide [mg/kg]	In accordance with Regulation (EU) No 2015/868 of 26 May 2015 as amended
Nicotine [mg/kg]	In accordance with Regulation (EU) No 2024/451 of 5 February 2024 as amended.

## NUTRITION INFORMATION (PER 100G)

Type	Parameter	Value (Approx)
Calorific Values	KJ	950
Calorific Values	KCal	227
Calorific Values	Calories from Fat (g)	11
Nutrients	Total Fat (g)	1.3
Nutrients	Saturated Fat (g)	<0.01
Nutrients	Transfat (g)	<0.01
Nutrients	Cholesterol (mg)	0.0

Nutrients	Sodium (factor 2.5) (mg)	<0.02
Nutrients	Total Carbohydrate (g)	6.0
	of which sugars (mono- and disaccharides) (g)	3.6
Nutrients	Dietary Fibre (g)	<0.5
Nutrients	Protein (factor 6.25) (g)	<0.5
Vitamins & Minerals	Vitamin A (mg)	0.0
Vitamins & Minerals	Vitamin C (mg)	0.0
Vitamins & Minerals	Calcium (mg)	11.4
Vitamins & Minerals	Iron (mg)	1.4

## ALLERGENS & FOOD INTOLERANCE

Parameter	Description
Allergens	No allergenic substances per EU 1169/2011

## FOOD STATEMENTS AND DECLARATIONS

Parameter	Description
Legal Status	The product(s) and all raw materials of the product comply with EU food regulations and with USA FEMA/FDA GRAS regulations.
Food Grade Declaration	The product(s) are classified as food grade and Generally Recognized as Safe (GRAS), per US FDA, EU, and JECFA (FAO/WHO Codex Alimentarius) standards and regulations. The product(s) are manufactured using Good Manufacturing Practices (GMP) following an internal Quality Management System, which incorporates HACCP.
GMO Statement	Per labelling regulation EU 1830/2003, the product(s) are manufactured neither "from" nor "by" Genetically Modified Organisms (GMOs), nor derived from genetically modified or engineered plants, as per Articles 2 and 9 of the Council Regulation EC 834/2007. The definition of a GMO is that given in Directive EC 2001/18.
Naturality Declaration	The product(s) are natural and conform(s) to US FDA 21 CFR 101.22 and EC 1334/2008. All the ingredients in the products are certified as natural, and do not contain any artificial flavour, colour or other artificial ingredient, and no artificial flavours have been added to it.
Vegan Declaration	The product(s) comply with a vegan or vegetarian diet. The product(s) contain no animal ingredients or by-products, use no animal ingredients or by-products in the manufacturing process, and are not tested on animals.
Irradiation Declaration	The product(s) has not been irradiated.

## RELIGIOUS CERTIFICATION

Certificate	Description
Kosher Standard	Certified as Kosher Pareve by Earth Kosher.
Halal Standard	Not suitable for certification.

## FOOD SAFETY AND OTHER CERTIFICATION

Certificate	Description
-------------	-------------

Food Safety Management System	The product is manufactured at premises certified under FSSC 22000 V6, a GFSI-compliant standard.
Rainforest Alliance Standard	Not currently certified.
Organic Standard	Not currently certified. Suitable for use in organic products per EU 2018/848.
Fairtrade Standard	Not currently certified.

## CORPORATE TRADE INFORMATION

**US FDA Registration No:** 15133494872

**EU REX No:** TZREX115665421