

INTEGRATED MANAGEMENT SYSTEM Product Specification MALTODEXTRIN DE 20

Cevizli Mah.Tugayyolu Cad. Ofisim Istanbul Plazaları No:20B/44-45 Maltepe Istanbul 34846 Phone: +90 539 573 73 03 E-

Issue date: 21.06.2021 Revision №3 Sheet 1 of 3

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		-					
MALTODEXTRIN DE 20							
Complies to the Food Chemical Codex and to the European / US Pharmacopeia monographs on Maltodextrin							
carrier of flavoring additives in various industries.							
	_	-	-				
glucose, maltotriose and polysaccharides in various ratios.							
ased produc	ct produced	from corn grain	not containing GMO				
a product i	not less		93/100 g				
Nutrition value in 100 g of a product, not less							
Carbohydrates, %, not less							
Fats, %							
Proteins, %							
ue) kcal / kJ	J per 100g 1	maltodextrin, no	t less 372/1581 Maltodextrins 100%				
Composition							
Regulatory GOST 34274-2017''Maltoo			todextrin. Technical requirements"				
,			7. T. O.)				
	$H(CH_{10}O)_{n}$ -OH						
			232-940-4				
CAS number		9050-36-6					
Appearance Homogeneous free		lowing fine powder, microgranules					
Colour			White				
Taste and odour Peculiar to maltodextrins, with			trins, without foreign taste and odor				
PHYSICAL AND CHEMICAL SPECIFICATIONS							
	Units	Typical value	Method of analysis				
	2.2000		of wieweyses				
nan	%	6.0	Determination of loss in mass on drying (130°C / 5 g / 1,5 h) (Ref. ISO 1666:1996)				
	Intended forming ag carrier of f Partial star glucose, mased product, in the star glucose and product, in the star glucose. PHYSICAL	Produ MALTOI emical Codex and to the Intended for use as a offorming agent, natural carrier of flavoring according and ased product produced a product, not less GOST GOST Hotology PHYSICAL AND CH Units	Product description MALTODEXTRIN DI emical Codex and to the European / US Pl Intended for use as a carbohydrate coforming agent, natural sweetener, sweetener of flavoring additives in various Partial starch cleavage product consist glucose, maltose, maltotriose and polyased product produced from corn grain a product, not less GOST 34274-2017"Malton H(GOST 34274-2017"Malton Peculiar to maltodex PHYSICAL AND CHEMICAL SPECTURE IN Typical value and man semical contents of the European / US Plemical value and man semical contents of the European / US Plemical Code in the Eu				



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Dextrose Equivalent (Lane-Eynon method), no more than	%	18.0-20.0	Titrimetry, Lane-Eynon method (Ref. ISO 5377:1981)	
Sulphated Ash Content, %, no more than	%	0.20	weighing of residuals from burning a weighed portion of maltodextrin in muffle oven at 550 °C (+H ₂ SO ₄) (Ref. ISO5809:1981)	
Bulk density (loose)	kg/dm ³	0.45 - 0.60	Internal method (Product weight in 1dm ³ in free state)	
		not less than 0.65	Internal method (Product weight in 1dm³ in a packed state by shaking)	
Sulphur dioxide content (SO ₂), no more than	mg/kg	10.0	Iodometry (Oxidation of sulfurous acid in a 50 % solution of maltodextrin in the presence of a starch indicator)	
Solubility, not less than	%	98.0	Internal method (Dissolving 50 g of maltodextrin in 100 g hot water)	
pH value	pH units	4.5-6.0	4.5-6.0 pH-metry 40 % solution of maltodextrin	
Particles size: Residue on sieve 200 μm, not more	%	5.0	Granulometry	
Particles size: Residue on sieve 40 μm, not less than	%	90.0	90.0 Granulometry	
C	Carbohydrate	composition (in	(DS) /	
Glucose (DP ₁)	%	Not more 2.0	HPLC (Ref. ISO 10504)	
Maltose (DP ₂)	%	Not more 7.0	0 HPLC (Ref. ISO 10504)	
Maltotriose(DP ₃)	%	Not more 10.0	HPLC (Ref. ISO 10504)	
Higher sugars (DP ₄₊)	%	On balance	HPLC (Ref. ISO 10504)	

FOOD SAFETY PARAMETERS

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Microbiological limits /								
Total Aerobic and Anaerobic Microbial Count, no more than	CFU/g	1x10 ⁴	Ref. ISO 4833					
Yeast, no more than	CFU/g 50,0		Ref. ISO 7954					
Molds, no more than	CFU/g 100,0		Ref. ISO 7954					
Coliforms	CFU/1,0 g	not allowed	Ref. ISO 4831, ISO 4832					
Pathogenic microbes including Salmonella	CFU/25 g	not allowed	Ref. EN ISO 6579-1 ISO 6579-1					
Content of Heavy Metal (mg/kg), no more than:								
Lead (Pb)		0.50	Atomic absorptive method (mineralization and determination with atomic absorptive spectrometer)					
Cadmium (Cd)		0.10						
Arsenic (As)		0.50						
Mercury (Hg)		0.02						
Content of GMO (PCR Real - Time)								
Genetically Modified Organisms		not allowed	PCR Real - Time (Ref. ISO 21569, ISO 21571)					
Shelf life is 2 years. Maltodextrin must be stored at relative humidity not exceeding 75 %.								
Standard packing - 25 kg paper bags with PE lining								

N	Issued by	Approved by	Approved by	
Name and position	Head of the laboratory	Deputy General Director for	Head of the maltodextrin production section	
Signature	//	Ost		
Date	21.06/2021	21.06.20217	2.06.2021	