

	Technical Data Sheet		Date: 01-10-22	Rev.04	
Nisin:	A bacteriocin				
Potency:	≥ 1000 IU/mg				
Molecular formular:	$C_{143}H_{230}N_{42}O_{37}S_7$				
Molecular weight:	3354.07g/mol				
Description:	 Nisin has broad-spectrum antibacterial activity that is produced by the Lactococcus lactis. In the food industry. Nisin is obtained from the cultivating of Lactococcus lactis on natural substrates, such as Yeast extract or milk. It serves as a natural, antibacterial, and toxicologically safe food preservative which protects against many bacteria that are food-spoilage pathogens. As a food additive, Nisin is popularly used in food production, such as milk, meats, fast food, beverages, health care products and medicines, etc. It is effective to decrease sterilization time, lower temperature during food sterilization, 				
	improve food quality, lessen damage to nutrition, and extend shelf life by suppressing Gram-positive spoilage and pathogenic bacteria.				
Applications:	Commonly used in Dairy products e.g., processed cheese, Natural ripened cheese, Milk drinks, Sterilized cream, thick cream, Canned food, Bakeries, Poultry, Salad dressings, Beverage, Fish, Meat and ready to eat products				
Direction of use and	The recommended use is from 20mg to 500mg/ kg/ litre of food. Exact dose is specific			specific	
quantities:	to the application.				
	Always adhere to the local regulatory body, FDA, or Contact Biozymes Aps for advice				
CAS Number:	1414-45-5				
Halal and Kosher	Manufactured according to Halal and Kosher Pareve				
Sodium Chloride:	Min. 50%				
Form:	Powder				
Color:	Light brown to off-white color				
E number:	E234				
Chmeical Specification:	Lead (Pb)	Max 1mg/k	g		
	Arsenic (As)	Max 1mg/k	.		
	Mercury (Hg)	Max 1mg/k	*		
	Copper (Cu)	Max 50mg/			
	Zink (Z)	Max 25mg/	-		
	pH	3,2-3,8	0		
Microbial Specifications:	Total aerobic microbial count	$\leq 10 \text{ Cfu/g}$			
	Coli form bacteria	<3.0 MPN	[/g		
	Eshericia coli		Absent in 25g		
	Salmonella		Absent in 25g		
			Absent in 25g		
	Listeria		0		
	Staphyloccoccus Absent in 25g				
Storage:	Cold dry place, keep sealed with no direct sunlight				
Packaging size:	Doybags		20g to 20kg as per customer specifications.		
Shelf life:	Day of production	24 months			
Purity and legal status	Nisin is a food grade and complies to FAO/WHO and EU food chemical codexes. complies with USFDA and classified GRAS status				