

Trade name: WORESANA®serum

Revised: 18-01-2022

Version: 2.2

Effective date: 29-11-2021

Replaces version: 2.1

1 Product

WORESANA®serum is a liquid fermentation product. The microorganisms used were isolated from sourdoughs, specified, and bred regularly. By the heat treatment, these microorganisms are killed. Additionally, the product is being filtrated to remove bran particles and receive the desired appearance.

1.1 EU - INCI

Product	INCI	Proportion-%	EC-No.	CAS-No.
WORESANA®serum	Lactobacillus/Rye flour ferment	100	-	-

1.2 US/CHINA - INCI

Product	INCI	Proportion-%	EC-No.	CAS-No.
WORESANA®serum	Aqua	98	231-791-2	7732-18-5
	Lactobacillus/Rye flour ferment	2	-	-

2 Usage

WORESANA®serum is designed to be used in applications for hair and skin. It enhances the skin's water-binding capacity. Regulating acidity and cleanses in an all-natural way. Relief from itching.

Application concentration	Recommodation	acc.to EU / ASIAN	acc.to EU CIR (USA)
Leave-On	0,025 – 50%	Max. 100%	Max. 100%
Rinse-Off	0,025 – 50%	Max. 100%	Max. 100%

WORESANA®serum is stored in the original container (protected from sunlight), 48 months at approx. + 20°C. WORESANA®serum contains only fully degradable components.

Dilutions of WORESANA®serum doesn't affect the sewage plant. woressan GmbH uses only canister and barrels made of HDPE with a specific label.

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3 Physical and chemical properties

3.1 Information on basic physical and chemical properties

Parameter	Value	Method	Comment
Physical state	liquid	visual	
Colour	transparent, yellowish	visual	
Odour	sour, typical	smell	
Odour Threshold	-	-	not determined
Freezing point	approx. 0 °C	-	
Melting point	-	-	inapplicable
Boiling point / boiling range	>100 °C / 212 °F	ISO 2719	
Flammability	-	-	inapplicable
Lower and upper explosion limit	-	-	inapplicable
Flash point	-	-	
Ignition temperature	-	-	inapplicable
Decomposition temperature	-	-	inapplicable
pH-value	3,0 – 4,0	PhEur.7.0:2.2.	
Dry matter	1 % – 3 %	-	
Dynamic viscosity	1 – 3 mPa*s	-	
Water solubility	in all proportions	-	
Vapor pressure	-	-	not determined
Relative vapor density	-	-	not determined
Density	1,00 g/ml - 1,10 g/ml	PhEur. 2.2.5	
Relative density	-	-	not determined
Particle properties	-	-	inapplicable
Partition coefficient: n-octanol/water	-	-	inapplicable
Explosive properties	Not explosive	-	
Oxidizing properties	The substance or mixture is not classified as oxidizing.	-	

3.2 Other Information

Refractive index	-	-	not determined
Self-ignition	not auto-flammable	-	

WORESANA®serum has a characteristic, natural slightly sour odor like fresh bread dough, which is easy to incorporate into formulations or to be masked. woresan GmbH is happy to support you and to present solution models.

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4 Microbiology properties

Microbiological properties	Test Method	Microbiological findings
Total aerobic microbial count (TAMC) / 1g	Ph Eur. 2.6.12	<100 cfu / 1g
Total combined yeasts/ moulds count (TYMC) / 1g	Ph Eur 2.6.12	<100 cfu / 1g
Pseudomonas aeruginosa / 1g	Ph Eur 2.6.13	<10 cfu / 1g
Staphylococcus aureus / 1g	Ph Eur 2.6.13	<10 cfu / 1g
Escherichia coli / 1g	Ph Eur 2.6.13	<10 cfu / 1g
Candida albicans / 1g	Ph Eur 2.6.13	<10 cfu / 1g

WORESANA®serum and its components are being tested constantly throughout the whole production process, to secure a high level of quality and safety.

"Recommendations of our products are based on in-depth scientific investigations by our research department. They are given to the best of our knowledge; however, no obligation may be derived from them. It is the manufacturer's responsibility to ensure that descriptions relating to the end product comply with local legislation. Apart from this our terms and conditions of sale and supply shall apply."