



BEVERAGE

100% Juices, Dilutables, Still drinks, Dairy drink, Alcoholic drinks
Label-friendly Solutions for Shelf-life Extension

MICROBIAL SPOILAGE, FLAVOR AND COLOR RETENTION

NATAP™, EPOLYLY™, WHITE NISINA®, LYSOCH™, PROTERIA™ LA, GUARDOX™ RA, CHITOLY™, FINE CHITOLY™, SHELFEX™ ER

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8 Years
expertise

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TM

BEVERAGE SOLUTIONS

Solutions		Label-friendly antimicrobials				Clean-label fermentates	Clean-label extracts			Clean-label cultures	Label-friendly extenders
		0101	0201	0306	0402	0601	0701	0702	0803	1001	1002
		Natap™	Epolyly™	White NisinA®+	Lysoch™ G4	Proteria™ LA	Chitoly™	Fine Chitoly™	Guardox RA	Befresh™ AF	Shelfex™ ER
Beverages		Anti-yeast & mold	Fungi and bacteria imbibition	Anti-Gram-positive bacteria	Anti-Gram-positive bacteria	Microbial control; Color retention	Anti-browning; Microbial control	<i>Brettanomyces</i> Elimination	Flavour and color retention	Anti-Gram-positive bacteria; Delay of rancidity	Microbial control; Flavour and color retention
Alcoholic drinks	Beer	Beer		•							
		Beer mix	•		•				•		
	Cider (e.g. Apple cider, Perry cider)		•		•					•	
	Wine	Fruit wine	•		•			•			
		Grape wine			•	•		•	•		
		Rice wine	•		•						
Wine mix		•		•					•		
100% Juice	100% Fruit juice	Aloe juice		•							
		Apple juice			•			•			
		Berry juice			•			•			
		Black currant juice		•							
		Citrus fruit juice			•			•			
		Coconut water		•							
		Grape juice			•			•			
		Juice blend		•	•			•			
		Mango juice			•			•			
		Pineapple juice			•			•			
	Tangerine juice			•			•				
	100% Vegetable juice	Carrot juice		•							
		Celery juice		•							
		Cucumber juice		•							
		Mixed vegetable juice		•	•						
		Tomato juice			•						
Dilutables	Berry squash	•									
	Blackcurrant squash	•									
	Citrus fruit squash	•									
	Fruit blend squash	•									
	Energy drinks	•				•			•		
Still drinks	Iced/RTD coffee drinks	•	•						•	•	
	Iced/RTD tea drinks	•		•		•			•		
	Juice drinks	•		•		•			•		
	Juicy water	•	•	•		•			•	•	
	Nectars	•	•	•		•			•	•	
	Sports drinks	•		•		•			•		
	Still flavored water	•		•		•			•		
	Dairy drink	White milk (e.g. Oat milk, Rice milk, Soy milk, Almond milk, Coconut milk)		•							•
Flavored milk drink		•		•							
Soy milk			•							•	
Fermented milk (e.g. Ayran, Laban, Kefir)		•		•					•		
Drinking Yogurt (e.g. Yakult, Actimel)		•		•					•		

PRODUCT RANGES

Code	Brand	Labelled as	Key benefits	Applications		Dosage
0101	Natap™	Natamycin	<ul style="list-style-type: none"> Protection against yeast and mold spoilage New generation of high-soluble natamycin upgraded from traditional natamycin Effective over a broad pH range (3-9) Dosage-efficient and low-cost-in-use Shelf-life extension Natural, friendly labeling 	Alcoholic drinks	Beer (Beer mix); Cider (e.g. Apple cider, Perry cider); Wine (Fruit wine, Rice wine, Wine mix)	<0.04g/kg
				Dilutables	Berry squash; Blackcurrant squash; Citrus fruit squash; Fruit blend squash	
				Still drinks	Energy drinks; Iced/RTD coffee drinks; Iced/RTD tea drinks; Juice drinks; Juicy water; Nectars; Sports drinks; Still flavored water	
				Dairy drink	Flavored milk drink; Fermented milk (e.g. Ayran, Laban, Kefir); Drinking Yogurt (e.g. Yakult, Actimel)	
0201	Epolyly™	ε-Polylysine	<ul style="list-style-type: none"> Protection against yeast, gram-positive and gram-negative bacteria New generation of ultrapure ε-Polylysine containing less chloride and inorganic contents Effective over a broad pH range (5-9) No impact on flavor, colour nor texture Natural, friendly labeling 	100% Juice	100% Fruit juice (e.g. Aloe juice, Black currant juice, Coconut water, Juice blend); 100% Vegetable juice (e.g. Carrot juice, Celery juice, Cucumber juice, Mixed vegetable juice)	<0.25g/kg
				Still drinks	Iced/RTD coffee drinks; Juicy water; Nectars	
				Dairy drink	White milk (e.g. Oat milk, Rice milk, Soy milk, Almond milk, Coconut milk); Soy milk	
0302	White NisinA™ +	Vegetal Nisin	<ul style="list-style-type: none"> Growth control of Gram-positive bacteria New generation of vegetable-sourced nisin with higher antimicrobial activities and clear solutions Effective over a broad pH range (2-7) Dosage-efficient and low-cost-in-use Shelf life extension Natural friendly labeling 	Alcoholic drinks	Beer (Beer; Beer mix) Cider (e.g. Apple cider, Perry cider) Wine (Fruit wine; Grape wine; Rice wine, Wine mix)	<0.15g/kg
				100% Juice	100% Fruit juice (Apple juice; Berry juice; Citrus fruit juice; Grape juice; Juice blend; Mango juice; Pineapple juice; Tangerine juice) 100% Vegetable juice (Mixed vegetable juice; Tomato juice)	
				Still drinks	Iced/RTD tea drinks; Juice drinks; Juicy water; Nectars; Sports drinks; Still flavored water;	
				Dairy drink	Flavored milk drink; Fermented milk (e.g. Ayran, Laban, Kefir); Drinking Yogurt (e.g. Yakult, Actimel)	
0402	Lysoch™ G4	Fermented Lysozyme	<ul style="list-style-type: none"> Allergen-free Preventing <i>Lactobacilli</i> spoilage during wine Fermentation Effective over a broad pH range (4-8) Shelf life extension Meet consumers' demand for natural products 	Alcoholic drinks	Wine (Grape wine)	<0.1g/kg
0601	Proteria™ LA	Cultured sugar cane	<ul style="list-style-type: none"> Providing natural colors (anthocyanins) stability Controlling <i>Alicyclobacillus</i> Shelf life extension Natural clean label 	Still drinks	Energy drinks; Iced/RTD tea drinks; Juice drinks; Juicy water; Nectars; Sports drinks; Still flavored water	<10g/kg
0701	Chitoly™	Fungi chitosan	<ul style="list-style-type: none"> Multi-functional Extract from the fungi cell of mushroom Long-acting microbial inhibitor Delay of oxidative rancidity Inhibition of visual deterioration (browning) Improved organoleptic profile (better flavor and texture) Natural clean label 	Alcoholic drinks	Wine (Fruit wine; Grape wine; Apple juice; Berry juice; Citrus fruit juice; Grape juice; Juice blend; Mango juice; Pineapple juice; Tangerine juice)	<0.3g/kg
0702	Fine Chitoly™	Fungi chitin	<ul style="list-style-type: none"> Allergen-free Prevent off-taste and off-odour by eliminating <i>Brettanomyces bruxellensis</i> contamination Have no effect to <i>Saccharomyces cerevisiae</i> Cost-efficiency Clean-labeling as auxiliary processing 	Alcoholic drinks	Wine (Grape wine)	100gr/25hL
0803	Guardox™ RA	Rosemary extract	<ul style="list-style-type: none"> Providing flavour and color stability Quick soluble and less flavour Shelf-life extension Natural clean label 	Alcoholic drinks	Beer (Beer mix); Cider (e.g. Apple cider, Perry cider); Wine (Wine mix)	<0.3g/kg
				Still drinks	Energy drinks; Iced/RTD coffee drinks; Iced/RTD tea drinks; Juice drinks; Juicy water; Nectars; Sports drinks; Still flavored water	
0903	Befresh™ AF	LAB mixtures	<ul style="list-style-type: none"> Growth control of yeast and moulds Improved food texture Shelf life extension Clean label 	Dairy drink	Fermented milk (e.g. Ayran, Laban, Kefir) Drinking Yogurt (e.g. Yakult, Actimel)	10u/1,000kg milk
1001	Shelfex™ ER	ε-Polylysine, Rosemary extract	<ul style="list-style-type: none"> Protection against yeast, gram-positive and gram-negative bacteria Effective over a broad pH range (5-9) Dosage efficient Shelf-life extension Natural, friendly labeling 	Still drinks	Iced/RTD coffee drinks; Juicy water; Nectars	<0.25g/kg



Handary is an industrial leader in delivering combined rapid microbial diagnostics and natural protective solutions to effectively increase food safety and shelf-life.

More precisely, Handary is a leading producer in premium shelf-life extension ingredients, including Natap™ high-soluble natamycin, Epolyly™ ultrapure polylysine, NisinA® | NisinZ™ vegetal nisin A/Z, Lysoch™ fermented lysozyme, Proteria™ fermentates, Antimix™ antimicrobial blends, Chitoly™ fungi chitosan and chitin, Guardox™ natural antioxidants, Befresh™ fresh-keeper (enzyme, coating, culture) and Shelfex™ shelf-life extender.



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