Cell Lytic Enzymes

Westase Yeast Cell Lytic Enzymes



Westase^m is a fungus derived enzymes preparation containing β -1, 6 glucanase and β -1, 3 glucanase activities. It efficiently lyses *S. cerevisiae*, *S. pombe*, as well as yeasts resistant to Zymolyase[®] treatment such as

Ustilago maydis, Phaffia rhodozyma, Cryptococcus albidus. It can prepare various DNA and intracellular enzymes.

Features

- Uniquely contains high β -1,6 glucanase activity
- Forms protoplasts not only in ascomycetous yeast, but also in fission yeast Schizosaccharomyces pombe which cannot be fully made into protoplasts by Zymolyase[®].

Better Lytic Enzymes for Zymolyase.

- Forms protoplasts in basidiomycete yeast and imperfect yeast which is difficult to make protoplasts.
- Has high protoplast recycling rate.
- Can also be used for preparing DNA from yeast as DNase activity is not accepted under recommended conditions.

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Yeast fungus

Form	Lyophilized powder (containing celite as the excipient)		
Origin	Streptomyces rochei DB-34		
Specifications	β -1, 6 glucanase activity (37°C) \geq 400 units/g		
	Lytic activity $(30^{\circ}C) \ge 35,000$ units/g		
	DNase activity: undetectable (McIlvain Buffer, pH6.0)		
Optimum temperature	30 - 50℃		
Optimum pH	6.0		

Protoplast formation rate (Comparison between Westase[™] and Zymolyase[®])

Strain	Protoplast formation rate		Strain	Protoplast fo	ormation rate
	Westase™	Zymolyase®		Westase™	Zymolyase
1. Schzosaccharomyces pombe IFO 0351	++	+	12. Graphiola phoenicis IFO 9100	++	-
2. Saccharomyces cerevisiae X2180-1A	++	++	13. Sporobolomyces roseus IFO 1105	-	-
3. Zygosaccharomyces rouxii IFO 1130	-	++	14. Brettanomyces bruxellensis IFO 0797	++	++
4. Hansenula mrakii RIB 5226	++	++	15. Candida colliculosa IFO 0663	++	++
5. Kluyveromyces lactis IFO 0433	++	++	16. Candida tropicalis IFO1400	+	++
6. Pichia anomala IFO 10213	++	++	17. Candida utilis IFO 0639	++	++
7. Lipomyces starkeyi IFO 10381	++	+	18. Kloeckera apiculata IFO 0865	++	++
8. Filobasidium floriforme IFO 1915	++	-	19. Rhodotorula glutinis IFO 1125	-	-
9. Ustilago maydis IFO 5346	++	-	20. Trigonopsis variabilis IFO 0755	++	++
10. Rhodosporidium toruloides IFO 10512	++	-	21. Cryptococcus albidus IFO 0612	++	-
11. Tremella mesenterica IFO 9310	++	-	22. Phaffia rhodozyma IFO 10129	++	-

Description	Cat. No. Quantity		Storage	
Westase™	OZK-OZ-20EX	2 G 4°C, dry condition		



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Yatalase[™] Fungal Cell Lytic Enzymes





Aspergillus

Yatalase^{••} is a *Corynebacterium sp* derived enzyme that lyses cell walls of filamentous fungi. It enables measurement of microbiomass of malted rice easily, and preparation of various DNA and intracellular enzymes.

Features

- Has chitinase, chitobiase, β -1, 3-glucanase activities.
- Raw chitin strongly degrades.
- Filamentous fungus protoplast can be prepared only with this product.
- Superior in heat stability.

Yatalase™	OZK-OZ-10EX	2 G	4°C, dry condition	
Description	Cat. No.	Quantity	Storage	
Optimum pH	5 - 8			
Optimum temperature	30 - 50℃			
Specifications	Chitinase activity: ≧50 units/g powder Chitobiase activity: ≧500 units/g powder Lytic activity against cell walls : Approximately 10,000 units/g powder			
Origin	Prepared from a culture supernatant of Corynebacterium sp. OZ-21			
Form	Lyophilized powder (containing lactose as the excipient)			

Labiase^m Bacterial Cell Lytic Enzymes



Labiase^w is a wide spectrum bacteriolytic enzyme preparation that efficiently digests walls of many Gm+ bacteria (lactic acid bacterium, hiochi bacterium) and a smaller number of Gm- bacterial strains. Use Labiase^w to lyse bacteria for extraction of DNA or other intracellular components, cell wall structural analysis, or to suppress the growth of certain harmful bacteria.

Features

- Superior in heat stability
- **H**as β -N-Acetyl-D-glucosaminidase activity, muramidase and endopeptidase.
- Lyses cell walls of numerous Gm+ bacteria effectively.
- Excellent in storage stability

(Stable regardless of storage form, such as powder or liquid.)

Form	Lyophilized powder (containing lactose as the excipient)			
Origin	Prepared from the culture fluid supernatant of Streptomyces fulvissimus TU-6.			
Specifications	β -N-Acetyl-D-glucosaminidase activity over 5 U/vials			
Optimum temperature	40 - 60°C			
Optimum pH	3.5 - 4.5			
Description	Cat. No.	Quantity	Storage	
Labiase™	OZK-OZ-30EX	500 MG	4℃, dry condition	

Labiase, Westase and Yatalase is a trademark of Ozeki Corporation. Zymolyase is a registered trademark of Kirin Holdings Co., Ltd.

Lactic acid bacteria



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