



Westase

Cat#OZK-OZ20-EX

from *Streptomyces rochei* DB-34

Westase was prepared from liquid culture supernatant of *Streptomyces rochei* DB-34. This product has complex lytic activities of yeast cell mainly consisting of β -1,6 glucanase and β -1,3 glucanase activity. This enzyme works well for Ascosporogenous yeasts such as *Saccharomyces cerevisiae*. But it is also available for fission yeasts such as *Schizosaccharomyces pombe* which cannot be protoplasted just with Zymolyase treatment or Basidiosporogenous yeasts, Imperfect yeasts such as *Ustilago maydis*, *Phaffia rhodozyma*, *Cryptococcus albidus*, etc. which are rarely protoplasted, and make them efficiently into protoplast.

SPECIFICATIONS:

Appearance	Lyophilized powder (containing celite as the excipient)
Package Size	2 g

DEFINITION OF ACTIVITY

β -1,6 glucanase activity:

One unit is defined as the amount required to release 1 μ mol reducing sugar from 10 mg/ml Pustulan solution in 1 min. at 37°C, pH6.0.

Lytic activity

One unit is defined as the amount required to cause a 1% decrease in absorbance at 660 nm in 1 min. at 30°C, pH6.0 when using cell wall fraction of *Cryptococcus albidus* IFO 0612

Specific activities

β -1,6 glucanase activity	≥ 400 units/g
Lytic activity	$\geq 35,000$ units/g
DNase activity	ND (McIlvain Buffer, pH6.0)

STORAGE:

Lyophilized preparation is stable for at least 1 year when stored at 4°C.



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【PROTOCOLS】

Conditions for protoplast preparation

Strains	Culture media	Culture conditions	Conditions for preparing protoplasts
(1) * <i>Saccharomyces cerevisiae</i> * <i>Trigonopsis variabilis</i>	YPG medium	25°C, 1day, Shake culture (reciprocate at 120 rpm)	0.5% Westase solution 0.5 M Na-tartrate McIlvain Buffer (pH6.0) 30°C Reciprocal shaking, 1-2 hr
(2) * <i>Lipomyces starkeyi</i> * <i>Candida utilis</i>	Same as in (1)	Same as in (1)	0.5% Westase solution 0.4 M Na-tartrate McIlvain Buffer (pH6.0) 30°C Reciprocal shaking, 1-2 hr.
(3) * <i>Shizosaccharomyces pombe</i> * <i>Hansenula mrakii</i> * <i>Kluyveromyces lactis</i> * <i>Pichia anomala</i> * <i>Filobasidium floriforme</i> * <i>Candida colliculosa</i>	Same as in (1)	Same as in (1)	0.5% Westase solution 0.4 M Na-tartrate McIlvain Buffer (pH6.0) 30°C Reciprocal shaking, 3-4 hr.
(4) * <i>Kloeckera piculata</i> * <i>Cryptococcus lbidus</i>	Same as in (1)	Same as in (1)	0.5% Westase solution 0.3 M Na-tartrate McIlvain Buffer (pH6.0) 30°C Reciprocal shaking, 1- 2 hr.
(5) * <i>Ustilago maydis</i> * <i>Graphiola phoenicis</i> * <i>Brettanomyces bruxellensis</i> * <i>Phaffia rhodozyma</i>	Same as in (1)	25°C, 2days, Shake culture (reciprocate at 120 rpm)	Same as in (1)
(6) * <i>Tremella mesenterica</i>	Same as in (1)	Same as in (5)	Same as in (2)

Distributor



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