



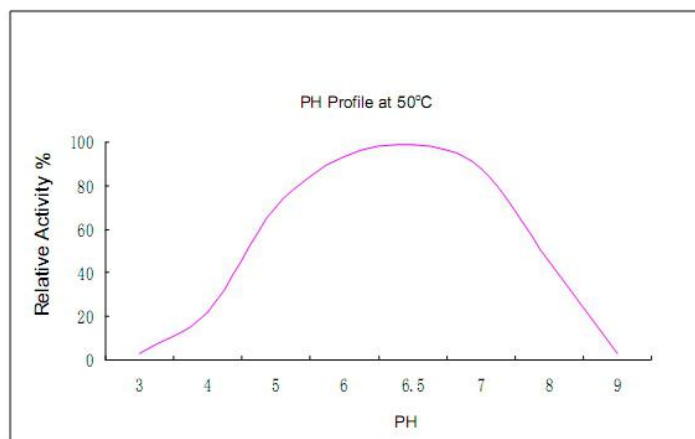
Yokozyne® NP-2

Neutral cellulase

Yokozyne® NP-2 is a high concentrated liquid neutral cellulase preparation. It is specially developed for fabric and garment biofinishing under neutral condition; it can combine with hydrogen peroxide removal in the same dye bath, and is exclusively designed for formulator.

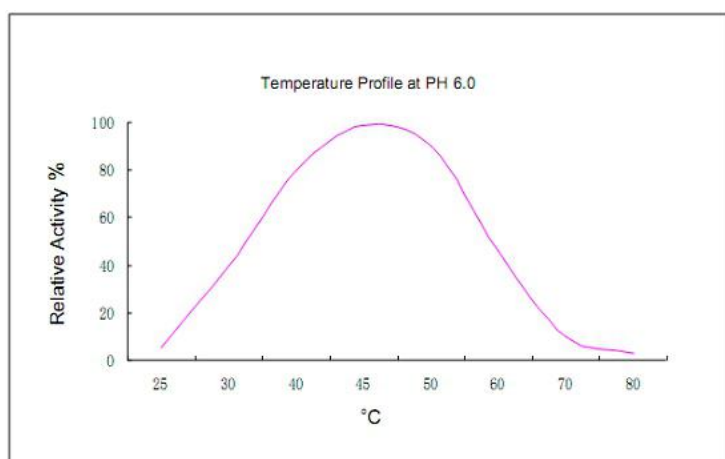
Specification

Appearance	Liquid
Color	Yellowish
Odor	Slight fermentation odor
Enzymatic Activity	CMC: $\geq 5,000$ u/mL(*);
Solubility	Soluble in water
CAS NO.	9012-54-8
IUB NO.	EC 3.2.1.4



Benefit

- Wide operational pH Range
- Clean and even fabric surface
- Softer handfeel
- Brighter color
- Excellent color retention properties on dyed fabrics
- Environmental-friendly & bio-degradation



Processing condition

Temperature	45-65°C, optimum 55°C
pH	5.5-8.0, optimum 6.0-7.0
Liquor ratio	5:1-20:1
Dosage	0.1-0.3% owg
Time	30-60 minutes

Inactivation Raising temperature above 80°C for 10 minutes, or raising the pH above 8.0 for 10 minutes can inactivate Yokozyne®NP-2 completely.

Definition of unit

CMC 1 unit of CMCase equals to the amount of enzyme, which hydrolyzes CMC-Na to get 1 µg of reducing sugar (in glucose) in 1 minute. at 50°C and pH6.0.

() Activity of the enzymes is expressed in CMCu/ml against an internal standard to ensure manufacturing lot-to-lot consistency. The enzyme activity value is not a measure for application performance. A detailed assay method is available upon request.*

Storage

Should be stored in a dry place with temperature between 5-35°C

Packaging

25kgs/drum; 30kgs/drum

Shelf life

6-9 months, subject to storage condition.

Safety

Enzyme preparations belong to protein, which may induce sensitization and cause allergic type reactions in sensitized individuals. Prolonged contact may cause minor irritation for skin, eyes or mucous membrane of nose, so any direct contiguity with human body should be avoided. If irritation or allergic response for skin or eyes develops, consult a doctor.