

# Carboxypeptidase B, recombinant in *Pichia pastoris*

## New standards in secure industrial applications

### Safer products, starting from the source

As industrial production of biological reagents and biopharmaceuticals expands, heightened regulatory requirements aim to ensure safer, cleaner products. Eliminating sources of animal material within your production process is a simple and effective way of complying with stringent regulations, but equally important is to maintain robust and optimized manufacturing. CustomBiotech has transformed the rat carboxypeptidase B gene into the expression host *Pichia pastoris* to create a recombinant enzyme that meets evolving regulatory demands and delivers high performance.

### Optimal for sensitive manufacturing workflows

Carboxypeptidase B provides critical process safety for biopharma workflows, such as active insulin production and post-translational modification of antibodies.

- Animal-component-free production, reducing risk of contamination
- Manufactured under DIN EN ISO 13485 in accordance to good manufacturing practice (GMP) guidelines

### Consistency that saves time and money

Each enzyme lot meets narrow quality and activity specifications so you can count on not only a quality supply, but also consistently high performance.

- Supports robust production processes
- Less downtime and corrective action required
- High reproducibility of your own product

### A smart addition to standing operations

Carboxypeptidase B is easily integrated into standing manufacturing workflows, leveraging Roche expertise and support.

- Dedicated support team can assist in optimizing production steps and ensuring a supply that meets your specific needs
- Regulatory expertise available upon request to support product registration

## Specification

### Carboxypeptidase B from rat, recombinant in *Pichia pastoris*

<b>Appearance</b>	clear, colorless to slightly yellowish solution
<b>Composition</b>	Tris/HCl, 33 mmol/l; ZnCl <sub>2</sub> , 0.1 mmol/l
<b>pH value</b>	7.5 – 8.5
<b>Activity</b>	≥ 400 U/ml (with Hippurylarginine)
<b>Specific activity</b>	≥ 210 U/mg (with Hippurylarginine)
<b>Protein</b>	2.8 ± 0.5 mg/ml
<b>Purity (RP_HPLC)</b>	≥ 85%
<b>Bioburden</b>	≤ 50 cfu/ml
<b>Trypsin activity</b>	≤ 0.005%
<b>Stability</b>	≥ 12 months at -15 to -25 °C

## Ordering information

<b>Product</b>	<b>Pack size</b>	<b>Catalog Number</b>
<b>Carboxypeptidase B from rat, recombinant in <i>Pichia pastoris</i></b>	30 KU	03 358 682 103
<b>Related products</b>	<b>Pack size</b>	<b>Catalog Number</b>
<b>Trypsin, recombinant from <i>Pichia pastoris</i></b>	3.5 MU	03 358 658 103
<b>Proteinase K, recombinant PCR Grade</b>	850 ml	03 654 672 103

### Regulatory Disclaimer

For further processing only.

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