

SPECIFICATIONS**Ascorbate Oxidase** from Cucurbita sp.**ASC-110**

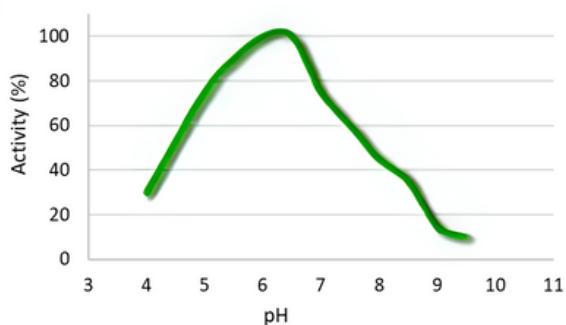
Name	L-Ascorbate: oxygen oxidoreductase
EC	1.10.3.3
Appearance	Light blue amorphous powder, lyophilized ≥
Activity	≤ 180 U/mg
Contaminants	Catalase ≤ 0.2%; Phosphatase ≤ 0.05%
Stabilizers	Bovine serum albumin, borax, basic amino acids
Stability	Stable at - 20 °C for at least 15 months
Molecular weight	140,000
Isoelectric point	5.5 ± 0.2
Michaelis constants	2.7×10 ⁻⁴ M
Inhibitors	AgNO ³ , HgSO ⁴
Optimum pH	6.5
Optimum temperature	50°C
pH Stability	pH 6.0 - 10.0
Thermal stability	below 40 °C

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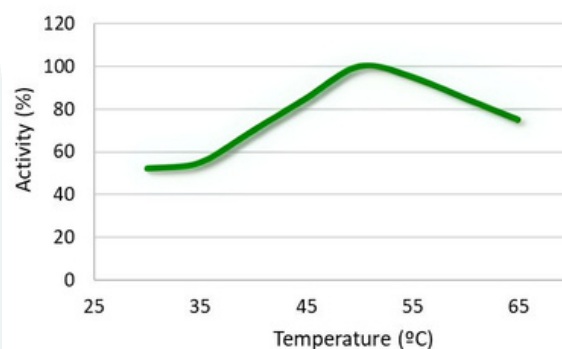
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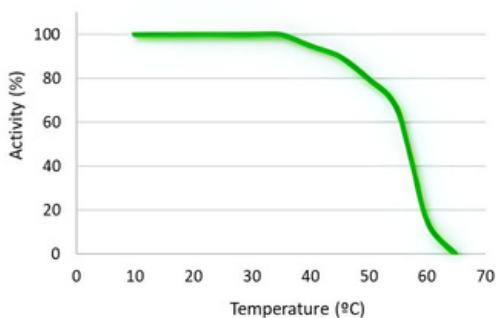
ASC-110 pH activity



ASC-110 Temperature activity



ASC-110 Temperature stability



ASC-110 - Specific activity 21 at 37°C - ascorbic acid 100mg/dL

