Laccase PP

Benzenediol: oxygen oxidoreductase
EC 1.10.3.2

Description:	Enzyme preparation which oxidises monovalent and polyvalent phenolic compounds. It catalyses the reaction to humic like substances under less oxygenic conditions. Particularly Laccase PP is highly active and oxidises mono-phenoles into the corresponding chinones and phenoxyradicals which polymerises spontaneously with precipitation in the solution at less oxygenic content. Laccase PP is known for it´s optima at a neutral pH.
Origin:	*Classified*
Application:	• precipitation of phenolic substances • enzymatic browning of food (cacao, coffee) • glueing of flake boards • modification of elasticity and consistency of pastes, gums dispersion media, phenolic resins • production of microbiocides • analysis of phenols
Activity:	> 500 U/g substrate: Syringaldazin (Methods: ASA Spezialenzyme GmbH)
Substratespezifity:	Laccase PP converts phenolic and halogenated substrates.
Parameters of reaction:	pH optimum 7 active within pH 4.5 – 8.0 Temperature optimum 55°C active within 20 – 70°C
Order-No.:	2040
Form of delivery:	brown powder
Storage:	at -20°C
Literature:	Ming-Qiang Ai, (2015), J. Microbiol. Biotechnol., 25(8), 1361-1370

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