

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 F is highly active and oxidises mono-phenols 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:	<i>Classified</i>						
Application:	<ul style="list-style-type: none">• 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:	<table><tr><td><u>pH</u></td><td>optimum 7</td><td>active within pH 4.5 – 8.0</td></tr><tr><td><u>Temperature</u></td><td>optimum 55°C</td><td>active within 20 – 70°C</td></tr></table>	<u>pH</u>	optimum 7	active within pH 4.5 – 8.0	<u>Temperature</u>	optimum 55°C	active within 20 – 70°C
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<u>Temperature</u>	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., <u>25(8)</u> , 1361-1370						