

## Laccase C

Benzenediol: oxygen oxidoreductase  
EC 1.10.3.2

Description:	Enzyme preparation which oxidised monovalent and polyvalent phenolic compounds. It catalyses reactions to products similar like humic substances under less oxygenic conditions. Particularly Laccase C oxidises mono-phenols to into the corresponding chinones and phenoxyradicals which polymerises spontaneously and are precipitated in the solution at less oxygenic content.
Origin:	<i>Trametes spec.</i>
Application:	<ul style="list-style-type: none"><li>• precipitation of phenolic substances</li><li>• enzymatic browning of food (cacao, coffee)</li><li>• glueing of flake boards</li><li>• modification of elasticity and consistency of pastes, gums dispersion media, phenolic resins</li><li>• production of microbiocides</li><li>• analysis of phenols</li></ul>
Activity:	> 800 U/g     substrate: syringaldazine > 240 U/g     substrate: brenzkatechine (methods: ASA Spezialenzyme GmbH)
Substratespezifity:	Laccase C converts a lot of phenolic and halogenated substrates.
Parameters of reaction:	<u>pH</u> optimum 5.0     active within pH 3.0 – 7.5 <u>temperature</u> optimum 70°C    active within 20 – 80°C
Order-No.:	2020
Form of delivery:	light brown powder (lyophilisate)
Storage:	4°C
Literature:	Wood, D.A., (1979), J. Gen. Microbiol., <b>117</b> , 327-338