

Laccase U

Benzenediol: oxygen oxidoreductase EC 1.10.3.2

Description:	Enzyme preparation which oxidises monovalent and polyvalent phe- nolic compounds. It catalyses the reaction to humic like substances under less oxygenic conditions. Particularly Laccase U active and ox- idises mono-phenoles into the corresponding chinones and phe- noxyradicals which polymerises spontaneously with precipitation in the solution at less oxygenic content. Laccase U has high residual activity at 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:	> 1 000 U/g Substrate: Syringaldazin (Method: ASA Spezialenzyme GmbH, pH 5,0; 30°C)		
Substratespezifity:	Laccase U converts phenolic and halogenated substrates.		
Parameters of reaction:	<u>pH</u> T <u>emperature</u>	optimum 5-6 optimum 40-45°C	active within pH 4.5 – 7.0 active within 15 – 60°C
Order-No.:	2045		
Form of delivery:	brown powder		
Storage:	at -20°C		





Figure 1: Temperature dependence of Laccase activity



Figure 2: pH dependence of Laccase activity

Literature:

Ming-Qiang Ai, (2015), J. Microbiol. Biotechnol., 25(8), 1361-1370