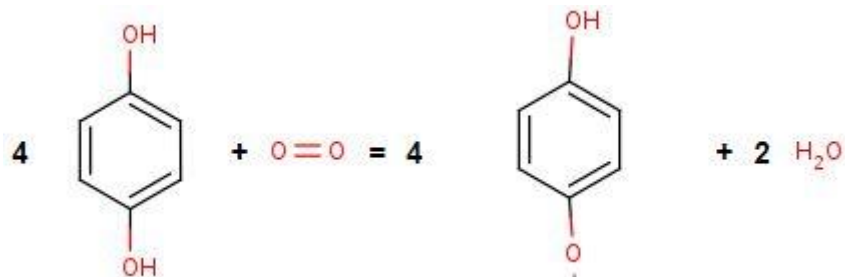


Laccase F

Benzenediol: oxygen oxidoreductase, E.C. 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. Basically, Laccase oxidises ortho- and para-diphenols into the corresponding quinones and phenoxy radicals which polymerises spontaneously and are precipitated in the solution.

Catalysed reaction:



Origin: *Classified (non GMO)*

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 microbicides
- Analysis of phenols

Activity: > 2 000 U/ g
(Substrate: ABTS)

Specific activity: > 50 U/ mg Protein

Parameter: pH Optimum: 4.0 – 4.5, effective in the range of pH 2.5 - 6.5
Temperature Optimum: 55°C, effective in the range of 20 - 70°C

Article-no.: 2035

Form of delivery: Dark brown powder/ lyophilizate

Stability: Stable at 4 – 6 °C, temperatures down to -20°C are possible

Storage: at 4 – 6°C, storage down to – 20°C is possible

Literature: [1] Wood, D.A., (1979), J. Gen. Microbiol., 117, 327-338
[2] Ming-Qiang Ai, (2015), J. Microbiol. Biotechnol., 25(8), 1361-1370