Enzyme	E. C	Abbreviation	Substrate	Function
Peroxidase	1.11.1.7	PER	L-DOPA	Oxidizes lignin and aromatic compounds using $H_2O_2$ or secondary oxidants as an electron acceptor (Sinsabaugh, 2010).
Phenol oxidase	1.10.3.2	PPO	L-DOPA	Oxidizes phenolic compounds using oxygen as an electron acceptor (Sinsabaugh, 2010).
$\alpha$ -1,4-glucosidase	3.2.1.20	αG	4-MUB- $\alpha$ -D-glucoside	Releases glucose from starch (Stone et al., 2014).
$\beta$ -1,4-glucosidase	3.2.1.21	βG	4-MUB- $\beta$ -D-glucoside	Releases glucose from cellulose (Stone et al., 2014).
$\beta$ -1,4-xylosidase	3.2.1.37	$\beta X$	4-MUB- $\beta$ -D-xyloside	Releases xylose from hemicellulose (Stone et al., 2014).
$\beta - 1, 4 - N$ -	3.2.1.14	NAG	4-MUB-N-acetyl-β-D-	Releases N-acetyl glucosamine from oligosaccharides
acetylglucosaminidase			glucosaminide	(Stone et al., 2014).
Acid phosphatase	3.1.3.1	AP	4-MUB-phosphate	Releases phosphate groups (Stone et al., 2014).