|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **enzyme** | **EC** | **reaction** | **substrate** **analogue** | **substrate source in environment** | **reference** |
| cellobiohydrolase | 3.2.1.91 | cellulose -> cellobiose | 4-MUF- β-D- cellobioside | plant cell walls | [1] |
| β-glucosidase | 3.2.1.21 | cellobiose -> glucose | 4-MUF-β-D-glucopyranoside | plant cell walls, decaying organisms, algal and bacterial exudates | [1] |
| β-xylosidase | 3.2.1.37 | xylobiose-> xylose | 4-MUF-7-β-D-xyloside | plant cell walls | [2] |
| leucine-aminopeptidase | 3.4.11.1 | peptide -> leucine | L-leucine-4-methyl-7-coumarinylamide | decaying organisms, algal and bacterial exudates  | [3] |
| phenoloxidase | 1.14.18.1 | oxidation of phenolic compounds (i.e. lignin) | L-3,4 dihydroxy-phenylalanine | plant cell walls | [4] |

**References**

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