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Research Article

Effect of different additives for the production of lignocellulolytic enzymes (liquid medium) in *Volvariella volvacea*

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SUMMARY

Among the additives liquid culture amended with calcium carbonate was found to be superior for the production of exo β -1,4 glucanase (17.51 μ mol of glucose/ml), endo β -1,4 glucanase (18.39 μ mol of glucose/ml), β -glucosidase (23.21 μ mol of p-nitrophenol/ml), xylanase (0.26 μ mol of xylose/ml), laccase (0.17 OD change/min/ml) and polyphenol oxidase (0.24 OD change/min/ml). This was followed by horse gram powder (16.83; 17.54; 20.95; 0.21; 0.14 and 0.21), calcium carbonate + gypsum (16.28; 17.07; 20.66; 0.20; 0.13 and 0.20) as against 13.33; 15.48; 19.05; 0.17; 0.10 and 0.17 in non-amended medium (control).

Key Words: Volvariella volvacea, Organic, Inorganic additives, Enzyme production, Liquid medium

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