Evaluation of the lignolytic effect of the white-rot fungi Ceriporiopsis sp, Pleurotus sp, and Phlebia sp on industrial Pinus radiata logs

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Pretreatment of pinus Radiata logs with the white-rot fungi Ceriporiopsis sp (9C), Pleurotus sp (9P), and Phlebia sp (24P), under field conditions was studied. The lignin content was evaluated by gravimetric techniques (Klason lignin), FFIR spectroscopy, and gas chromatography. A control sample and samples treated for 90 days with each of the fungi were analyzed. The ability of the fungi to degrade the lignin was in the order Phlebia sp (24P) > Ceriporiopsis sp (9C) > Pleurotus sp (9P). Copyright © Taylor & Francis, Inc.