Supplemental Information

***Enzymatic activities and analysis of a mycelium-based composite formation using peach palm (Bactris gasipaes) residues on Lentinula edodes***

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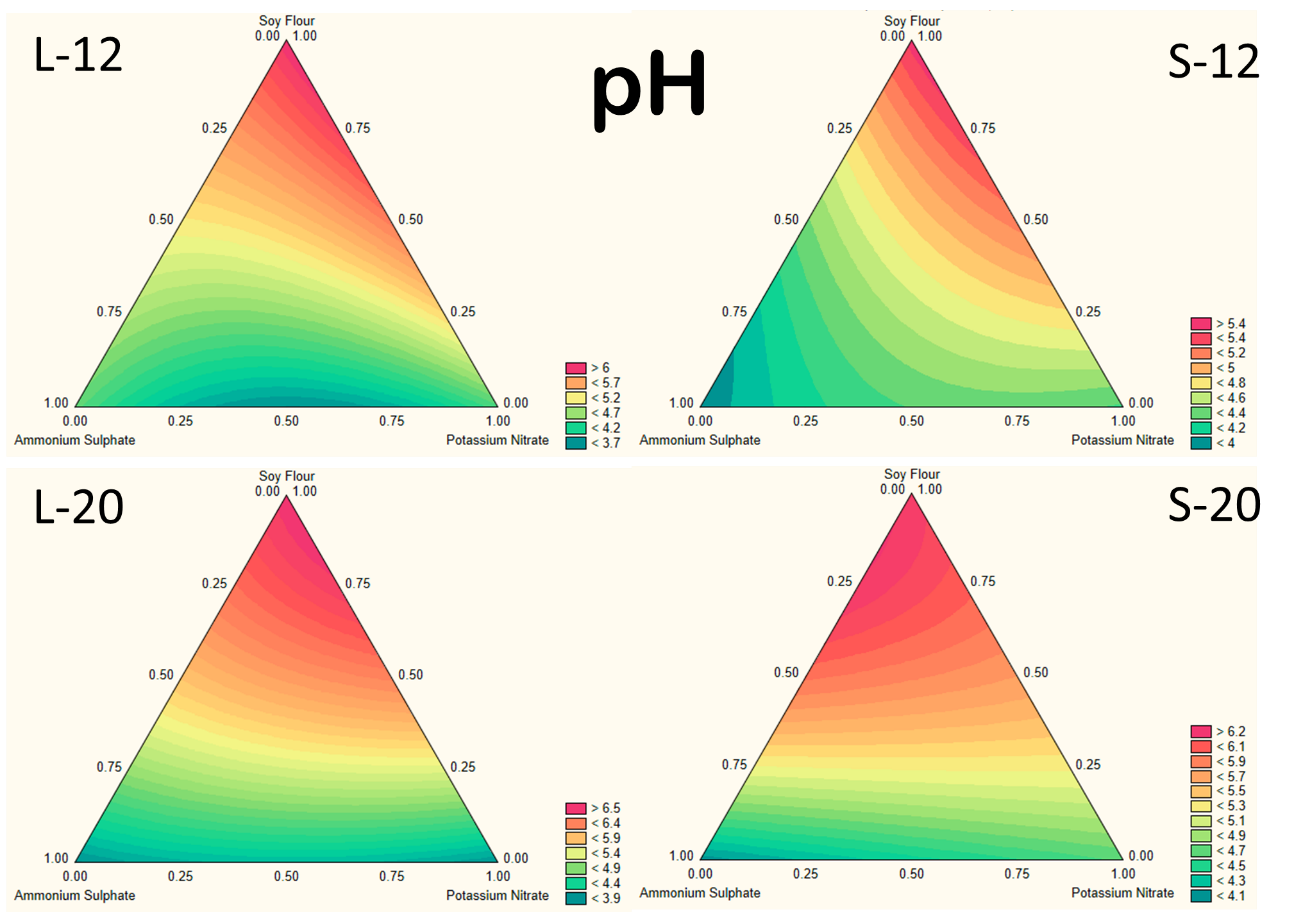
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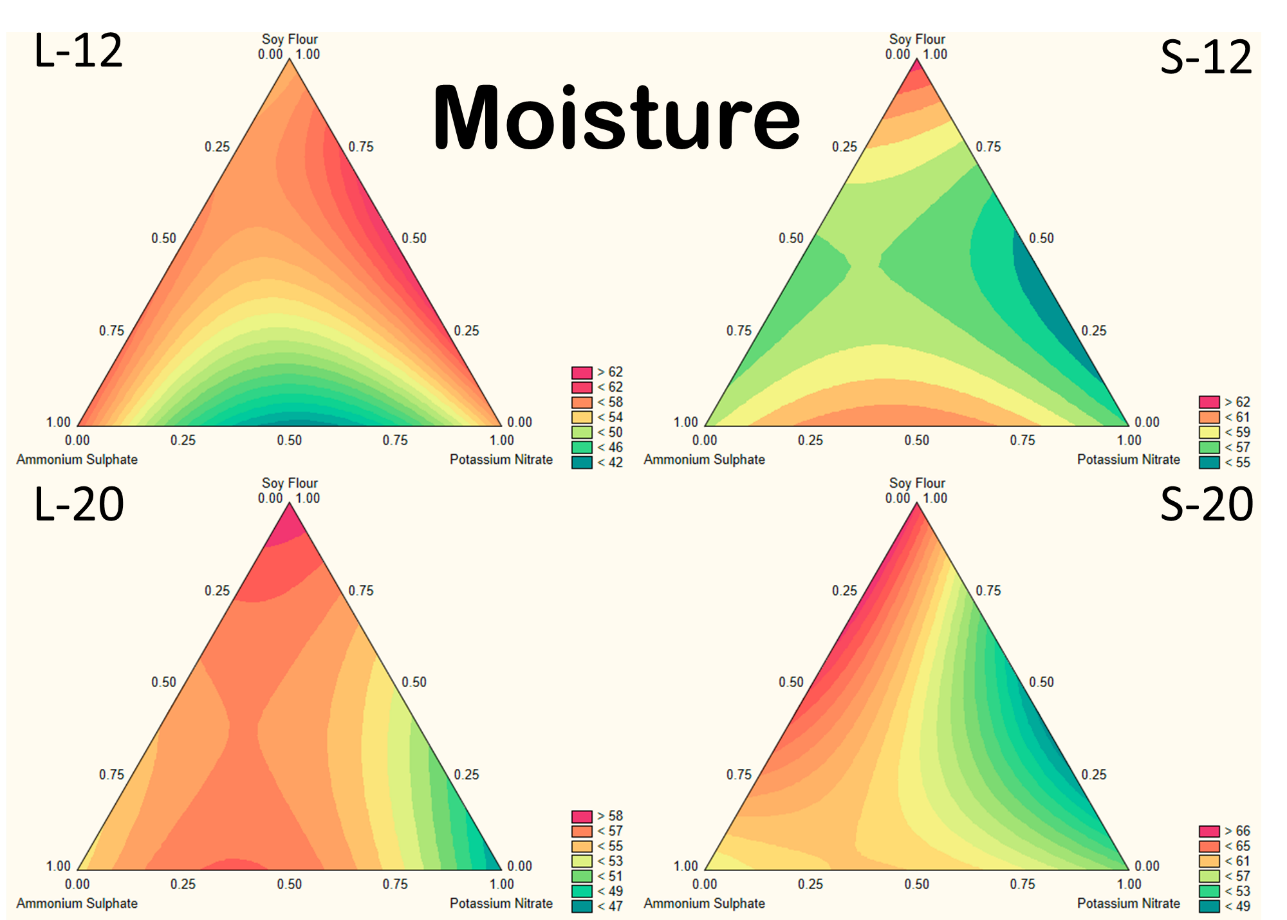
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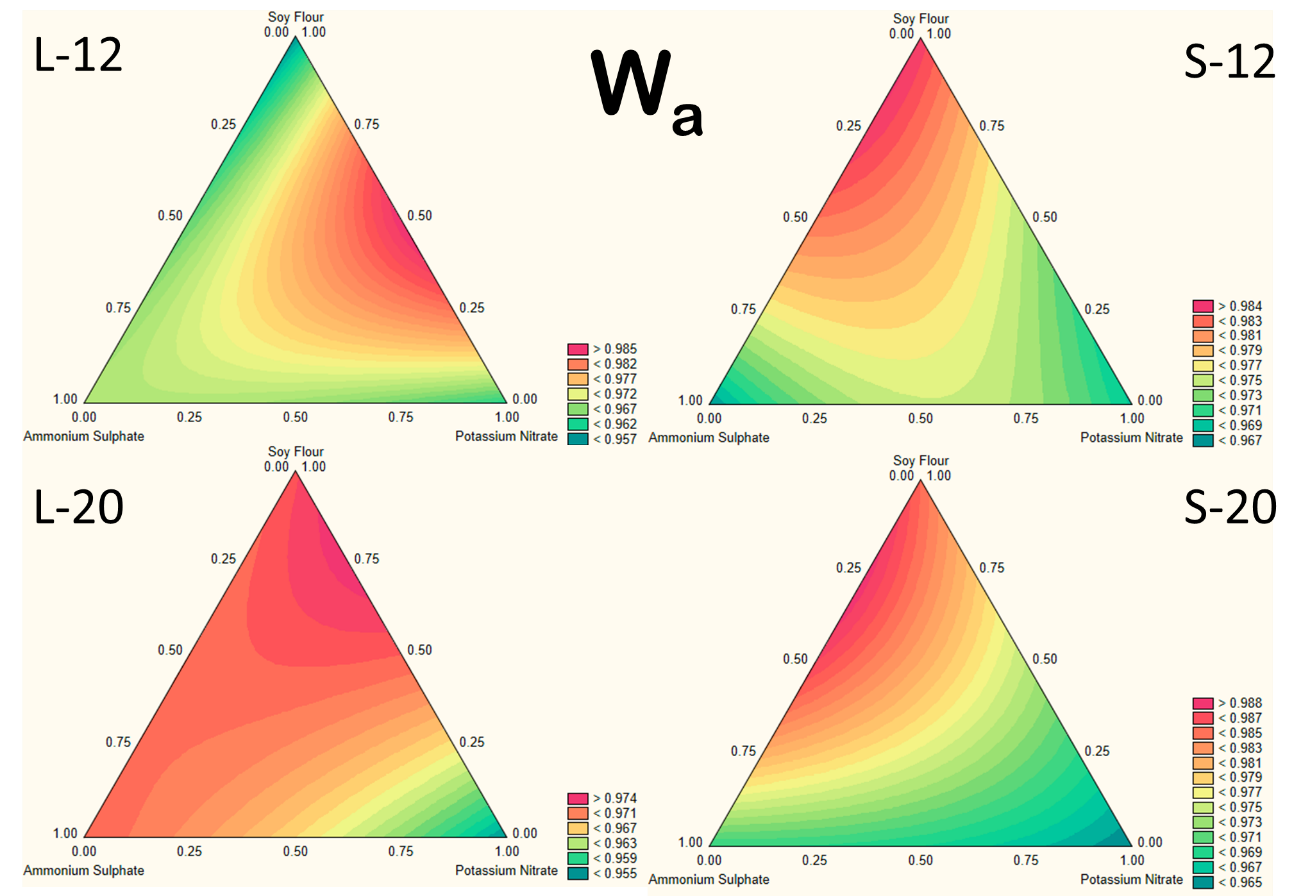
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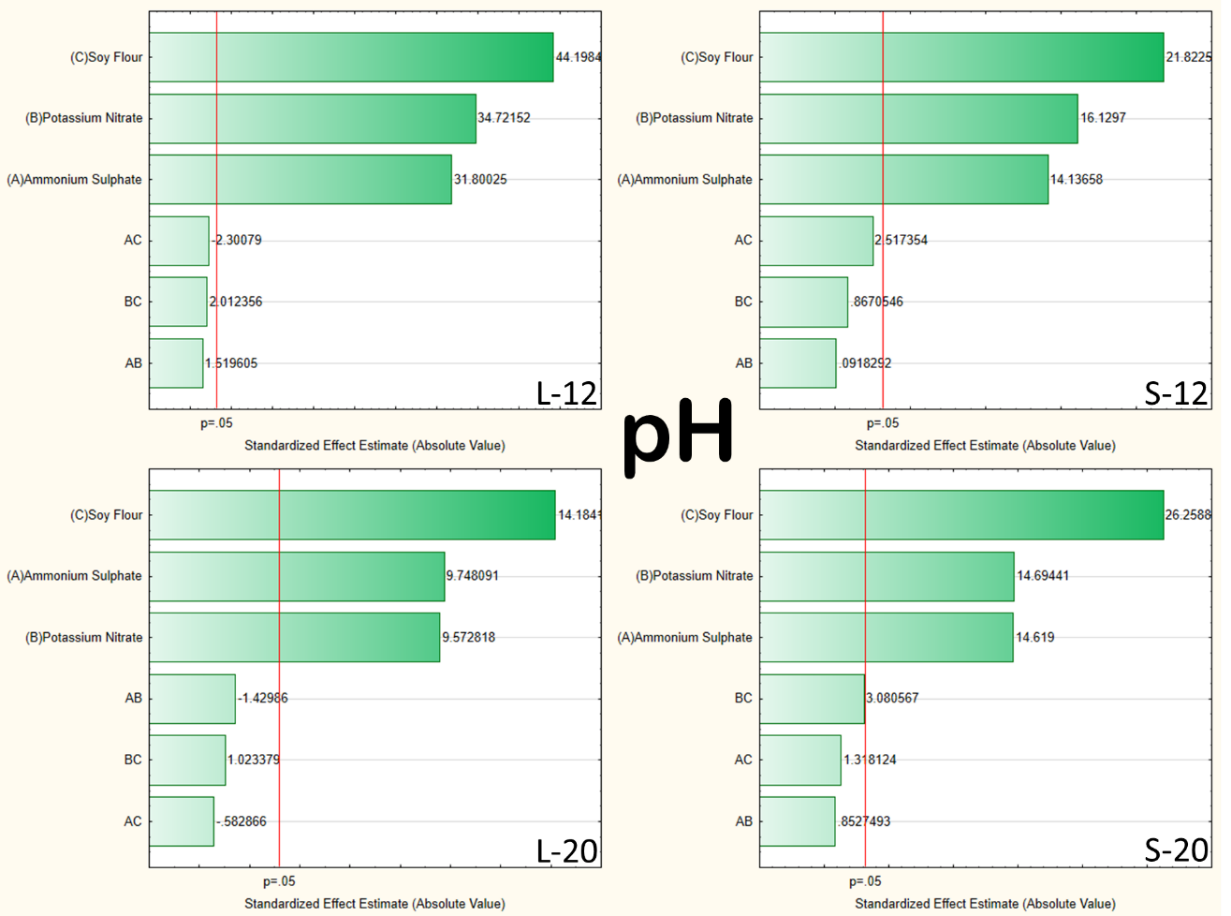
**Fig. A.1.** Surface contour plot of pH evaluation under different treatments using the studied inoculum solid (S) or liquid (L) and time periods of 12 and 20 days.



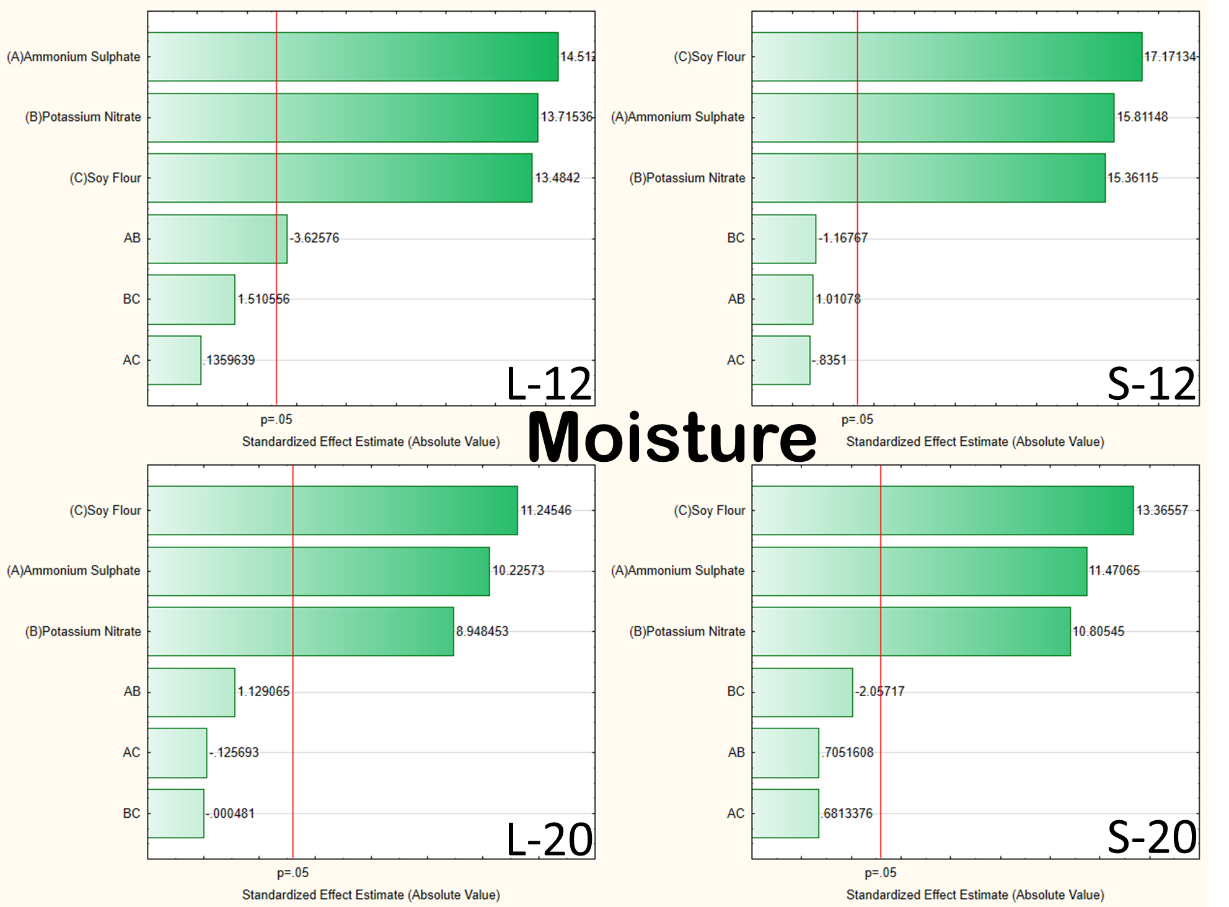
**Fig. S.2.** Surface contour plot of Moisture evaluation under different treatments using the studied inoculum solid (S) or liquid (L) and time periods of 12 and 20 days.



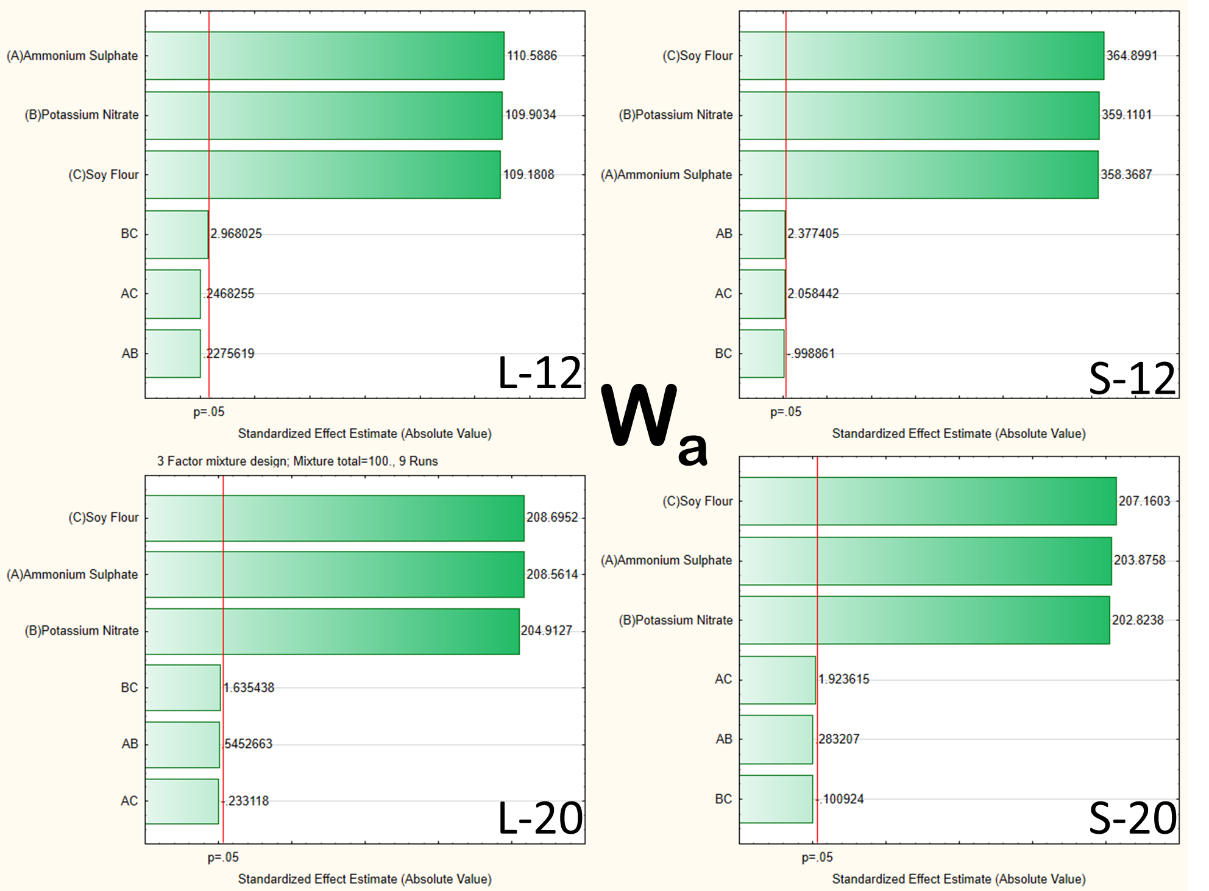
**Fig. S.3.** Surface contour plot of Wa evaluation under different treatments using the studied inoculum solid (S) or liquid (L) and time periods of 12 and 20 days.



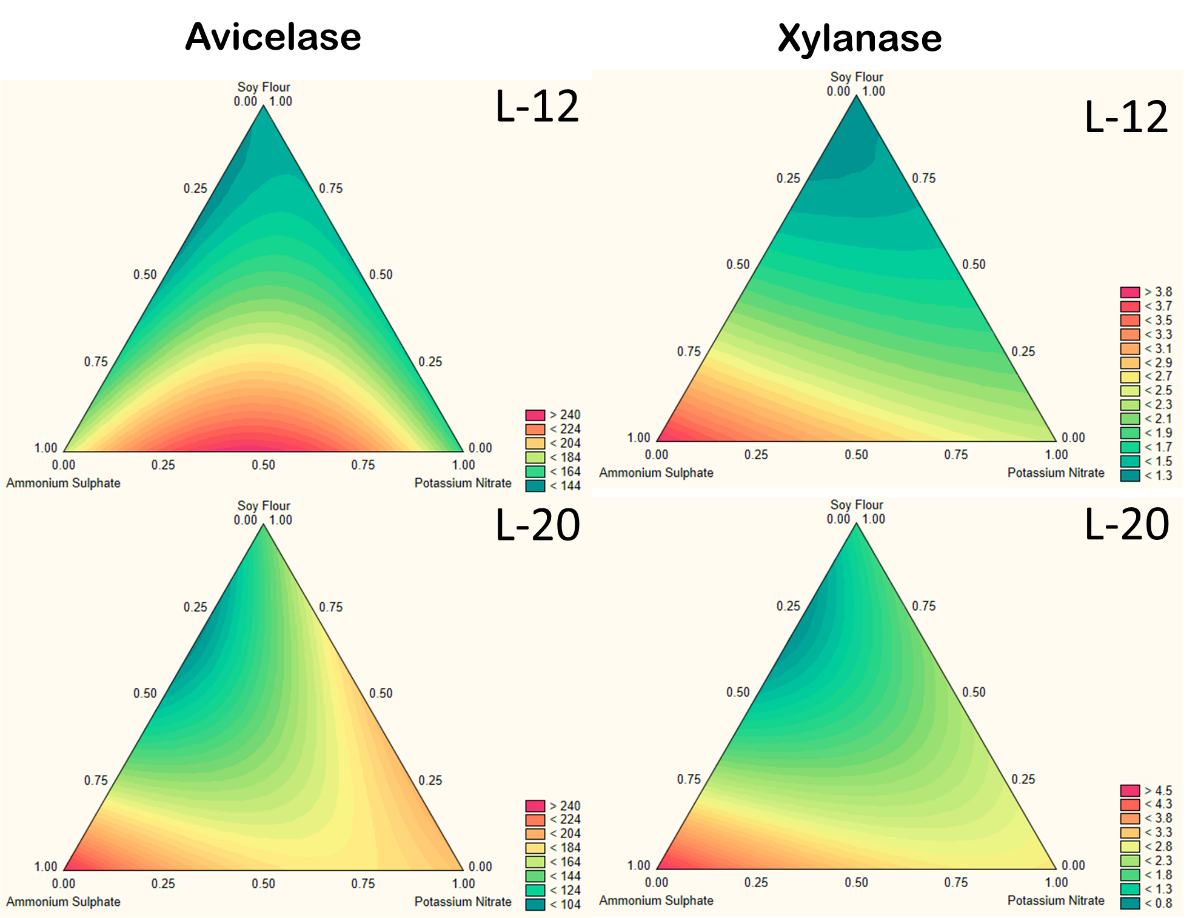
**Fig. S.4.** Pareto diagram for the studied treatments influence on pH values using inoculum solid (S) or liquid (L) and time periods of 12 and 20 days



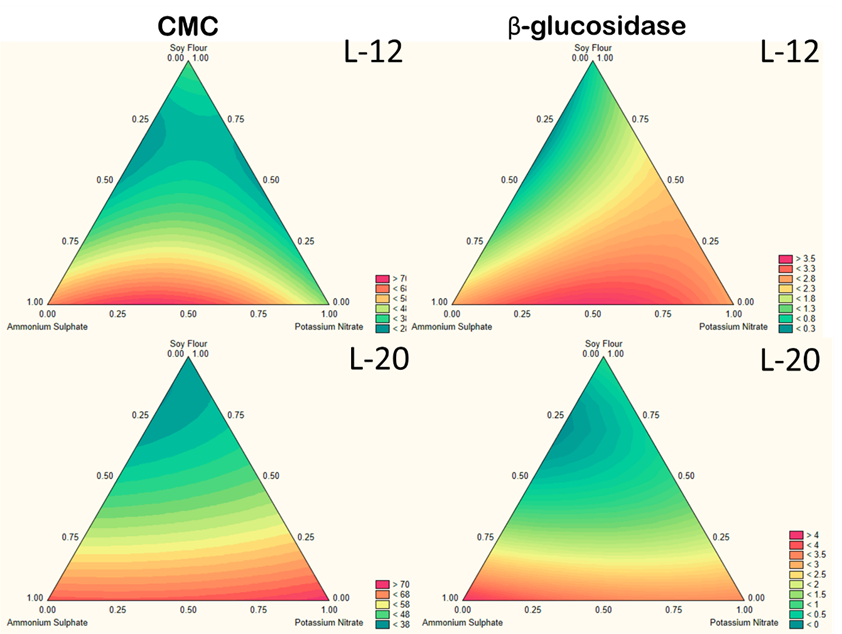
**Fig. S.5.** Pareto diagram for the studied treatments influence on moisture values using inoculum solid (S) or liquid (L) and time periods of 12 and 20 days



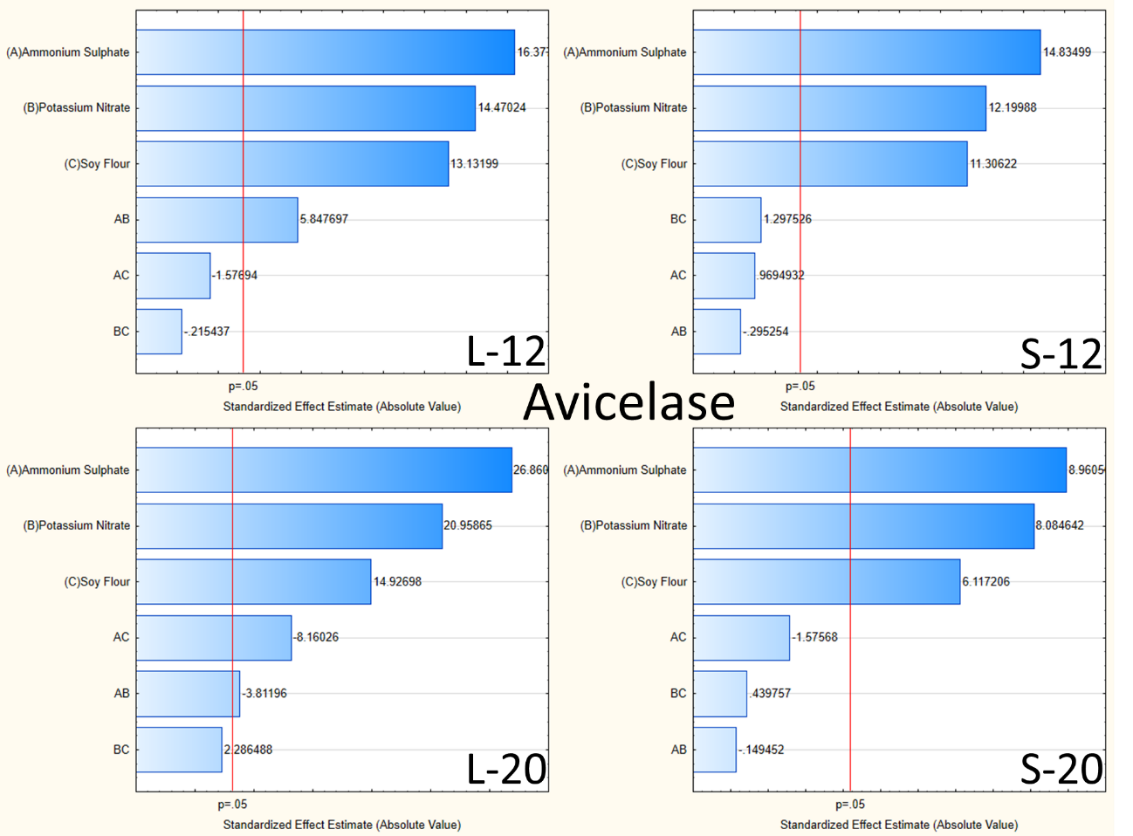
**Fig. S.6.** Pareto diagram for the studied treatments influence on Wa values using inoculum solid (S) or liquid (L) and time periods of 12 and 20 days



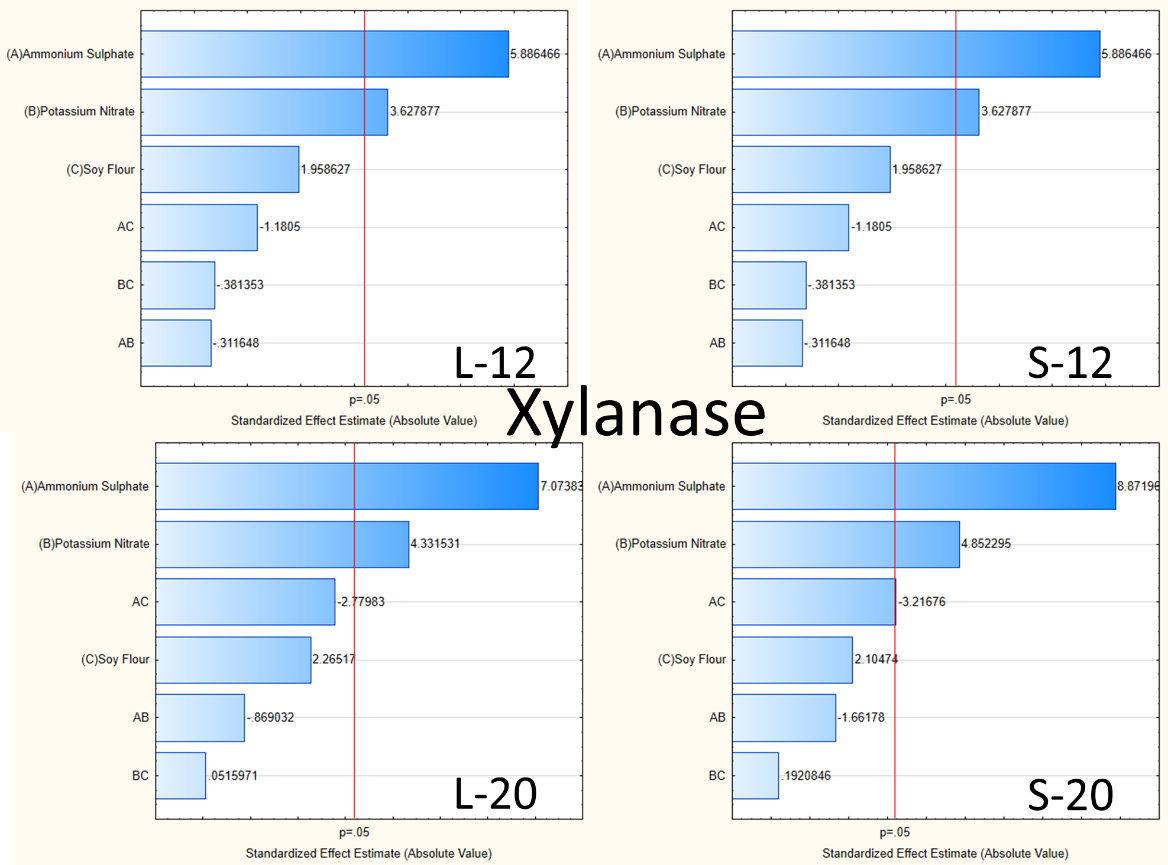
**Fig. S.7.** Surface contour plot of avicelase and xylanase activities under different treatments using the liquid (L) inoculum and time periods of 12 and 20 days.



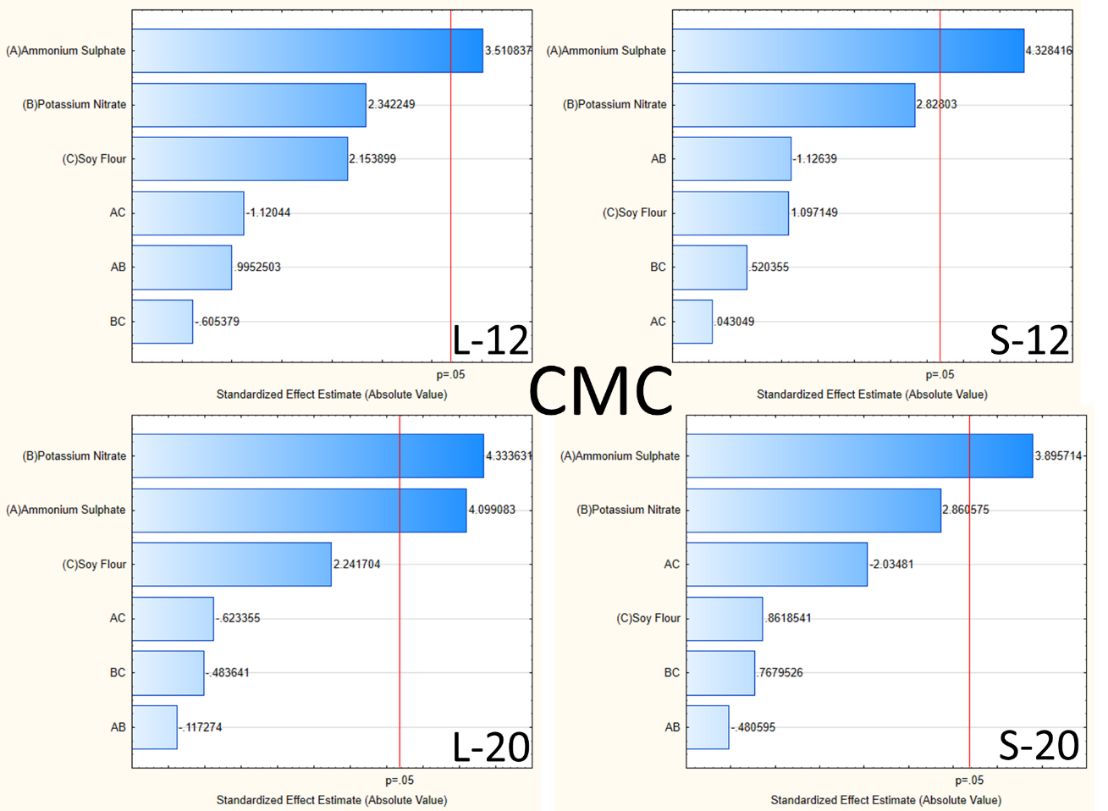
**Fig. S.8.** Surface contour plot of CMC and β-glucosidase activities under different treatments using the liquid (L) inoculum and time periods of 12 and 20 days.



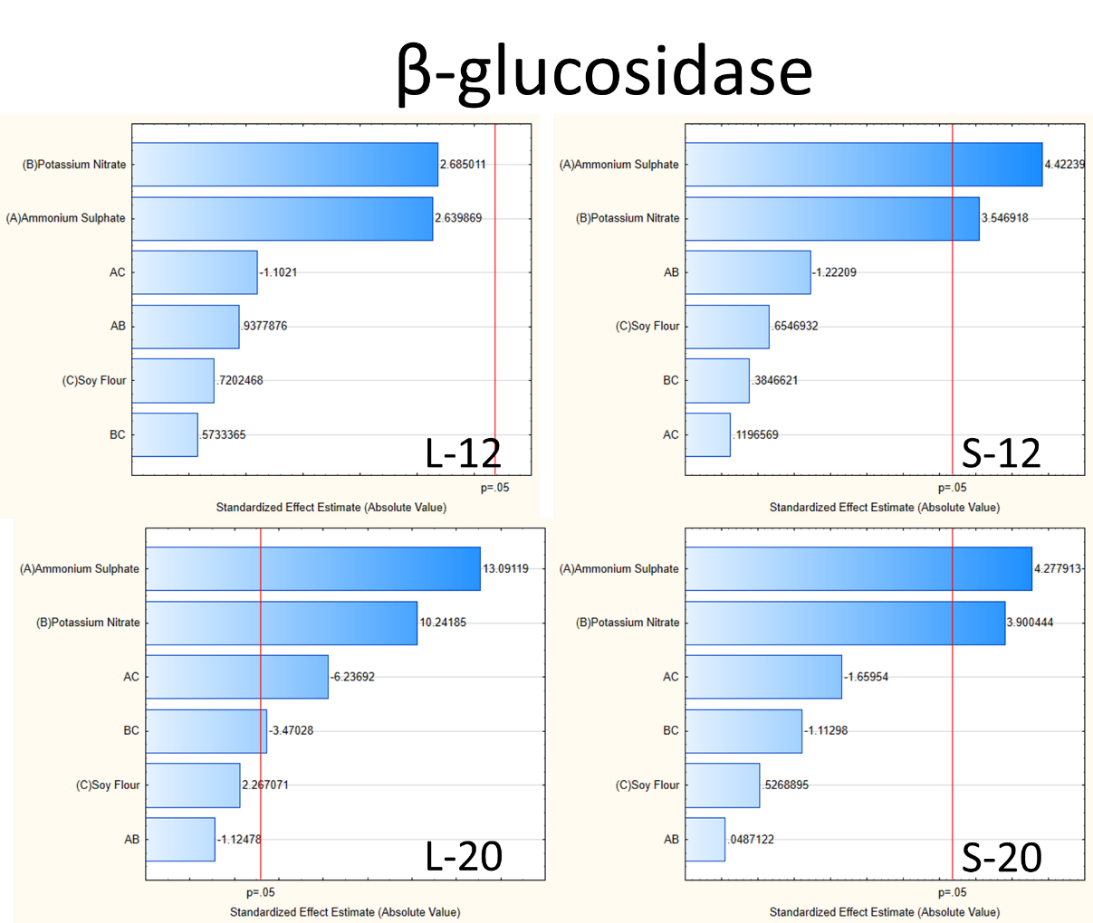
**Fig. S.9.** Pareto diagram for the studied treatments influence on enzymatic activity avicelase values using inoculum solid (S) or liquid (L) and time periods of 12 and 20 days



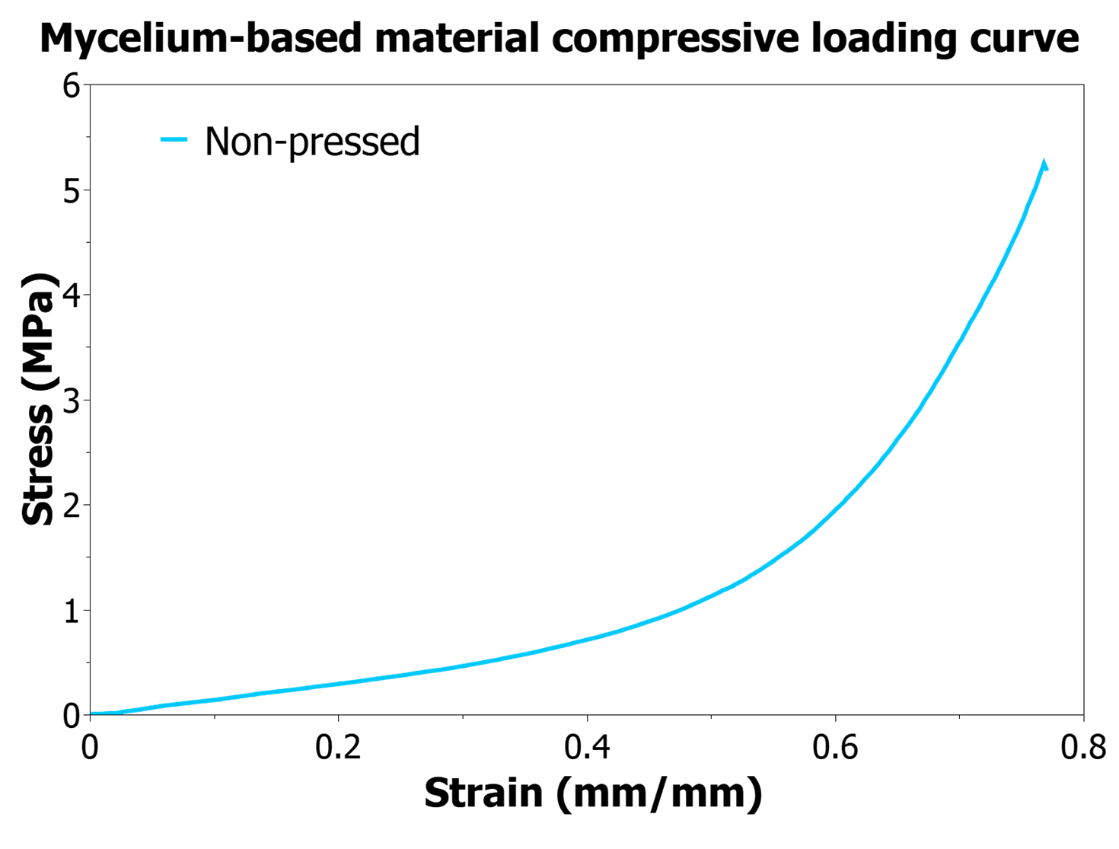
**Fig. S.10.** Pareto diagram for the studied treatments influence on enzymatic activity xylanase values using inoculum solid (S) or liquid (L) and time periods of 12 and 20 days



**Fig. S.11.** Pareto diagram for the studied treatments influence on enzymatic activity CMC values using inoculum solid (S) or liquid (L) and time periods of 12 and 20 days



**Fig. S.12.** Pareto diagram for the studied treatments influence on enzymatic activity β-glucosidase values using inoculum solid (S) or liquid (L) and time periods of 12 and 20 days.



**Fig. S.13.** Compressive stress-strain response for the studied mycelium-based composite non-pressed sample.