**Table S1.** Composition, harvest cycles, and utilized duration of the tested mushroom media.

AC = *Agrocybe cylindracea*, LP = *Lentinus polychrous*, PP *= Pleurotus pulmonarius*, NF = non-fermented and F = fermented.

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| SMS type | Composition | Utilized duration |
| LP | Rubberwood sawdust, rice bran, gypsum, magnesium sulfate, calcium oxide | 5 months |
| PP | Rubberwood sawdust, rice bran, gypsum, magnesium sulfate, tapioca starch, calcium oxide, carbamide, volcanic soil | 12 months |
| AC | Rubberwood sawdust, gypsum, rice bran, corn meal | > 12 months |