

58. 袋裝雞糞墊料於不同堆置時間之種子發芽率評估

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本研究旨在了解白肉雞墊料裝袋後於不同堆置時間之種子發芽率變化。白肉雞墊料來自於剛出清完 50,000 羽的商業白肉雞養雞場。雞糞墊料經機械粉碎混合後，裝袋並秤重成 6 袋，橫式 2 袋平放，再上方置放 2 袋後堆置。其中一袋 (T1) 於堆置之第 1 日、第 2 週與 3 週倒出攪拌與採樣後再裝回並堆置到原位置。其餘 5 袋墊料則依序但不重複的分別於第 2 (T2)、第 3 週 (T3) 進行採樣、裝回與堆置到原位置。將採樣之雞糞墊料進行白菜種子發芽率試驗。結果顯示第 1 日 T1 之平均種發芽率為 65%、平均相對發芽率為 64%。第 2 週 T1 與 T2 之平均種子發芽率分別為 80 與 76%；平均相對發芽率為 84 與 79%，顯示墊料經攪拌後具較佳發芽率。

關鍵語：白肉雞墊料、發芽試驗、白菜種籽

Evaluation of seed germination rate of bagged broiler manure litter at different stacking times

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The purpose of this study was to understand the change in seed germination rate of broiler litter after bagging at different stacking times. These litters were from a commercial chicken farm of fed 50,000 broilers that just sold out. These litters after mechanical crushing and mixing were weighed and packed into 6 bags. The two bags were placed horizontally, and two bags are placed on top and then stacked. One of the bags (T1) was unpacked, stirred, sampled, repacked, and restacked to the previous position on the first day, second week, and third week. The other five bags were sampled sequentially and without repetition on the second (T2) week and third (T3) week, then restacked to the previous position. These manure litter samples were carried out cabbage-seed germination test. The result showed that the average germination rate (AGR) on the first day T1 was 65%, and the average relative germination rate (ARGR) was 64%. The AGR on the second week T1 and T2 were 80 and 76%, respectively, and the ARGR were 84 and 79%. The results demonstrated that the bagging litters have a better germination rate after stirring.

Key Words: White broiler litter, Germination test, Cabbage-seed