

V. CONCLUSION

5.1 Conclusion

Based on the research that has been done, it can be concluded that:

1. It's has been identified two fungal isolates that have the potential to degrade Low Density Polyethylene (LDPE) plastics, they were *Aspergillus niger* (Isolate SP2) and *Aspergillus ochraceus* (Isolate SP4).
2. *Aspergillus niger* is the most effective fungi isolate compared to *Aspergillus ochraceus*. The *Aspergillus niger* were able to reduce LDPE weight by percentage (53%) on transparant plastic, (43%) on black plastic, and (16%) on baglog plastic. The *Aspergillus ochraceus* were able to reduce LDPE weight by percentage (48%) on transparant plastic, (38%) on black plastic, and (13,5%) on baglog plastic.

5.2 Suggestion

Based on the research that has been done, it is suggested to do further research on the different type of plastics by the two potential fungal isolates (*Aspergillus niger* and *Aspergillus ochraceus*).

