

## The Analysis of Quality of Composts from Coffee Grounds Using the Germination Rate Index

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### Abstract

Growing the plants has been promoted widely as a part of environment sustainability, due to plants can reduce outdoor temperature and absorb some Greenhouse Gases. Growing vegetables can reduce food expenses, while growing potted plants can improve warm and pleasant atmosphere in living places. However growing plants also have some expenses regarding the soils and fertilizers for providing enough nutrients for plants. Organic composts are introduced for long time to use to reduce the volume of organic and food wastes. Composts from organic composting processes can be used as good sources of nutrients required by plants. The experimental design was conducted to test whether the composts from coffee ground composting processes with and without sugar-added, are suitable for seed germination and for plant growth or not. The results indicated that different types of soils are suitable for plants in the germination stage differently. The old soils with sugar-added compost are suitable for the growth stage. The findings from this study can be used as a part of knowledge delivered to people living in condominiums and townhouses for persuading them reducing the organic and food wastes and increasing the number of plants grown.

