

Dry Matter Methodology

The sample (approximately 10g) was placed on a foil plate and dried to a constant weight at 105°C.

$$\text{Dry Matter \%} = \text{Final weight (g)} \times 100 / \text{Initial weight (g)}$$

Organic Dry Matter Methodology

The dried residue from total solids analysis was weighed and heated in a crucible for two hours at 550°C in a preheated furnace. After cooling the crucible and ash were weighted.

$$\text{Organic Dry Matter \%} = 100 - ((V3-V1)100/(V2-V1))$$

Where V1 = weight of the crucible

V2 = weight of dry residue and crucible

V3 = weight of ash and crucible (after cooling)

Scientifically the organic dry matter analysis is otherwise known volatile solid analysis. Greenfinch use this analysis and chose to name it organic dry matter because this is how other biomass and biofuel companies refer to crop yields and fuel ouputs.