

Mikrobølgeovn og dybfryser som hjælpemiddel ved forbehandling af saftfyldte analyseprøver

Microwave oven and deepfreezer as aids in the preliminary treatment of analysis samples containing juices

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Resumé

For at hindre ødelæggelse af planteprøver til analyse, fremsendes disse ofte til laboratoriet i frossen tilstand.

Under optøning og tørring afgiver prøverne ofte så store saftmængder, at analyse af det tilbageblevne tørstof bliver fuldstændig misvisende.

Der er udarbejdet en metodik, der går ud på, at prøven sønderdeles groft i frossen tilstand, hvorefter hele prøven, eller en del af den, overføres til et bægerglas, tilsættes vand og opvarmes eller koges i en mikrobølgeovn.

Nitratbestemmelse i den vandige ekstrakt før og efter findeling af prøven med Ultra-Turrax gav samme resultat.

Nøgleord: Afgrødeprøver, dybfrost, mikrobølgeovn.

Summary

To prevent damage to plant samples submitted for analysis, they are frequently sent to the laboratory in a deep frozen state.

When these samples are thawed out and dried, they often produce such a large amount of juice that the analysis of the remaining solid mater becomes misleading.

A method has been devised in which the sample in its frozen state is broken into coarse fragments, whereupon it – or part of it – is transferred to a beaker, water is added, and the sample is heated or boiled in a microwave oven.

Nitrate determination in the watery extract before and after comminution of the sample with Ultra-Turrax gave the same result.

Key words: Crop tests, deep freezing, microwave oven.

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