

The present invention relates to a process for producing raw juice (14) for making sugar, wherein sugar-beet cossettes (11) are fed to an extraction device (20), for example an extraction tower or a diffusion trough, and sugar-beet-cossette remains (13) and raw juice (14) are drawn off from the extraction device (20), wherein a first near-infrared spectroscopy device (21) is used to record first measurement data concerning the sugar-beet cossettes (11) which are fed to the extraction device (20) and/or a second near-infrared spectroscopy device (22) is used to record second measurement data concerning the sugar-beet-cossette remains (13) which are drawn off from the extraction device (20) and/or a third near-infrared spectroscopy device (23) is used to record third measurement data concerning the raw juice (14) which is drawn off from the extraction device (20). The invention also relates to a sugar-production installation and to a process for making sugar, wherein raw juice (14) is produced and sugar is made from the raw juice (14) in subsequent process steps.