Case Study
K-355 for alcohol distillation

Customer: Medium-sized manufacturer of homeopathic and herbal medicine, Germany
The mid-sized company produces homeopathic and herbal medicine. In addition it is also manufacturer of micronutrients as well as dietary supplements.

Application: Alcohol determination of herbal extracts
Determination of the alcohol concentration in different extracts and tinctures, which can be done by means of steam distillation. The distillate is collected in a 100 mL-volumetric flask, tempered and filled to the mark. Afterwards the alcohol content is determined by means of a density measurement of the distillate.

Equipment: Kjeldahl Distillation Unit K-355
The Distillation Unit K-355 stands out due to its high efficiency and versatility. In addition to the classical Kjeldahl methods, the Distillation Unit K-355 can be used for a variety of other applications, such as the determination of alcohol. This application requires the regulation of the steam output, as a definite distillate volume (100 mL) has to be reached in a predefined time (3 min).

Benefit / Conclusion: Huge saving in analytical costs
The determination of the alcohol concentration by means of the steam distillation followed by a density measurement is a fast and reliable method. The qualification of the BUCHI system carried out by the manufacturer had an essential influence on our purchase decision.

“The use of the BUCHI distillation unit and the density gauge has significantly accelerated the determination of the alcohol concentration of our medicine and thus made our daily laboratory routine much easier.”