

Flavors & Ingredients

Weighing and Analysis in the Laboratory



8 News

The Sweet Smell of Success Quality Control in Fragrance

Manufacturing scents for the fragrance and cosmetics industries requires stringent quality control and precision weighing of both raw materials and final products. Swiss fragrance supplier Luzi AG relies on the Excellence XS204 Analytical Balance to meet regulatory requirements and ensure the quality of its scented oils.

The Right Choice for Quality Control

Swiss company Luzi AG specializes in the manufacture, mixing and supply of fragrance oils for use in a wide range of cosmetic products by customers in over a hundred countries around the world. The oils are formulated from a wide range of both natural and synthetic raw materials, and the purity of each of these components is vital to guarantee the high quality end products for which Luzi is renowned. Accurate and reliable weighing, both of the raw materials and of the final product, is an essential part of the company's rigorous quality assurance process and, for this, Luzi relies on the Excellence XS204 Analytical Balance.

Flexibility by Design

Analysts in Luzi's quality control laboratory required a flexible system capable of weighing numerous samples, typically ranging from less than 10 mg to over 100 mg, as Bruno Bürgi, head of quality control, explains, "we use the XS204 Balance primarily for quantitative assessments of essential oils and other raw material purchases. We check the purity of these ingredients using gas chromatography and accurate weighing is an important factor in sample preparation for this technique. The balances we had before were not accurate enough for our requirements. They were top loading and quite inconvenient to use and did not respond or give results or respond as quickly as the METTLER TOLEDO instruments do."



METTLER TOLEDO

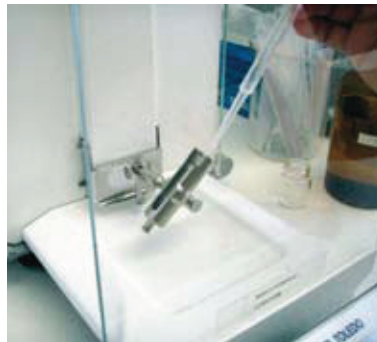


Luzi AG at Dietlikon in Switzerland

“The balance is also very important for checking final products as part of the quality assurance process to ensure that everything is working smoothly at production level. We can use the balance as many as 30 times a day using multiple operators so it is important that the balance is straightforward and user friendly. The interface is simple and intuitive and includes individually configurable statistical analysis which makes sample evaluation very easy.”

The Excellence XS204 Balance provides the accuracy ($\pm 1\%$) that Luzi requires without compromising on convenience. Dr. Bürgi and his team are particularly impressed by the unique SmartGrid weighing pan that significantly reduces the effects of air turbulence in the weighing chamber and dramatically shortens the time it takes for samples to stabilize before measurements are taken. This innovative feature means that they can measure samples very quickly without needing to close the draft shield. They also sometimes make use of the ErgoClip accessories, which compliment the weighing pan by securing the tare vessels

during weighing. Dr. Bürgi added that, “the ErgoClip is important when we need to weigh small bottles. The door to the draft shield can be left open without forfeiting the balance’s stability and it makes working with many small samples faster and easier.”



ErgoClip Tube increases the weighing for an accurate and efficient weighing procedure.

Fuss-Free Operation and Care

Calibration is an especially important consideration for Luzi as the company is certified to ISO9001 standards. Dr. Bürgi explains that, “although there are no daily maintenance requirements and the system auto-calibrates, it must, like all our equipment, be recalibrated yearly by METTLER TOLEDO to the ISO17025 standard. METTLER TOLEDO was the only supplier of balances able to fulfill this requirement.” He added, “thanks to the rear-mounted weighing pan, the balance is very easy to keep clean and very reliable. I have worked with METTLER TOLEDO weighing systems for many years now and have always been very happy with them. The support team is always readily available and there for us if we need them.”



Ms. Alice Carena, Lab QC Assistant with an Excellence XS204 Analytical Balance.

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