UPTOSPEED Express Updates

SCIENTIQUIPP

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Preparation Of Honey Samples For Analysis

Honey has been an important part of Indian culture and history for thousands of years. In ancient India, honey was used for a variety of purposes, including medicinal, culinary, and religious. Honey, as a natural product, is a pure food source that is good for our health. However, the widespread use of crop protection agents, antibiotics, adulteration and other such products means that honey may contain substances that have an adverse impact on its quality, or which can even be a potential health risk for humans. Honey is therefore subject to a wide range of analyses for quality assurance purposes and to protect consumers. Despite the large number of parameters that are included in the analyses, the initial treatment of the honey is generally the same: The honey samples are taken from their containers and divided equally. Extraction is then carried out and the extracts sent for analysis. Laboratory centrifuges are used during the extraction procedure. A solvent is added to the sample and the substance to be detected enters the solvent and is separated from the other constituents of the sample through the centrifugation procedure. The supernatant is aspirated by a pipette and analysed.

Advantages Of The Scientiquipp Method

1. Combining centrifugation and freezing in a single step saves time and labour The freezing process results in the sediment being fully or partially frozen so that the supernatant can be more easily removed, and in particular quantitatively. Until now it was necessary to freeze the sample after the centrifugation step. The high-performance cooling unit and state-reduced speed. Depending on the approach, the sediment can be fully frozen and the supernatant derived quantitatively through simple decanting.

2. Laboratory space is saved, since there is no need to store the samples in a freezer.

3. The accuracy of the results is greater, since we have eliminated the difficult-to-reproduce step whereby the supernatant is removed by a pipette.



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For Laboratory Use. It is the customer's responsibility to ensure that the performance of the product is suitable for customers' specific uses or applications.
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Preparation

1. Preparation of the sample 1ml of the honey sample is first mixed with 1 ml tap water at room temperature. 5ml acetonitrile is then added and mixing repeated. Important: The tubes must be closed and the safety instructions followed for the handling of acetonitrile!
2. Centrifugation Program 1 (pre-cooling). The pre-cooling program PREC (Program number 99) is used for cooling

Program 2

(sedimentation) The samples are then centrifuged for 5 minutes at 2,540 x g (corresponding to 4,000 min-1 with angle rotor No. 200378) at a temperature of -20 °C.

Program 3

(phase separation) Program 2 is followed automatically by program 3. In this program the samples are centrifuged for a further 45 minutes at 1,000 min-1 at a temperature of -20 °C. Both the start-up and braking ramp are set to the highest value of 9.

Ordering information

Centrifuge Cat. No.: ROTA 6R V/FM - Optimum Performance & Versatility



Product – Rota 6R V/FM

ROTA 6R V/FM (Refrigerated Centrifuge)
PART NO : 100122

FIXED ANGLE ROTOR : **40 x 15mL** (Max. Capacity)

PART NO : 200378

About Scientiquipp. Pvt.Ltd.

Since the 1980's Scientiquipp (formerly known as Plasto Crafts) has been synonymous with customer-oriented processes and innovative products, such as laboratory devices. Today, we serve as experts and advisors, using our unique knowledge and experience to support laboratories and research institutions around India. The foundation of the company's expertise is its focus on its customers. Scientiquipp's exchange of ideas with its customers results in comprehensive solutions that in turn become industry standards. Scientiquipp will continue this path in the future, to the standard set by the company's founders: that of *enabling the future of medicine.*

European Brushless Technology | CE ISO 9001:2015 Certified |

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