

Press release

Drug testing via hair analysis

In order to proof the consumption of drugs (cocaine, cannabis products, amphetamines) even after long periods of time, hair is analyzed frequently.

It is dissolved in certain acids and then analyzed via gas chromatography or the mass spectrometer. The dissolving in the acid is accelerated and improved through the enhancement of the specific surface area of the sample. Here the ball mill FRITSCH-PULVERISETTE 23 is used. In a 15ml steel cup, 300-500mg hair is weighed in. As a grinding body a 15mm steel ball is used. After a grinding duration of 5 minutes a fine powder is attained (< 100µm), which can be used for the following analysis. For larger amounts or for the grinding of two samples simultaneously, the FRITSCH Micro Mill PULVERISETTE 7 can be used. In a 45 ml grinding cup made of zirconium oxide, sintered corundum, silicon nitride approximately 0,1-1g of hair is weighed in and 7x15mm grinding balls are added. The grinding time is 5 - 20 minutes. Afterwards a fine powder is obtained (< 100 µm), which can be used for additional analysis.

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