

Gas Chromatography/
Mass Spectrometry

Clarus[®] SQ 8 GC/MS with TurboMatrix Headspace Trap System Application Pack for Monitoring Volatile Organic Compounds in Beer Production



Beer is a popular beverage produced by the fermentation of hopped malt extracted from barley and other grains. Although simple in concept, beer is a highly complex mixture of many compounds including sugars, proteins, alcohols, esters, acids, ketones and terpenes. Flavor is an important quality of any beer and the chemical content of the beer is responsible for that flavor. Aroma is also an extremely important part of the beer's trademark, so there is a strong interest by brewers in the volatile organic compounds (VOCs) in beer.

Some VOCs have a positive effect on aroma (attributes) and some have a negative effect (defects). The ability to characterize these in beer products before, during and after fermentation is an important tool in process control, quality assurance and product development. This application pack contains all the consumables needed to perform your analysis.

Monitoring Volatile Organic Compounds in Beer Production Application Pack**Part No. N9300908**

Pack includes one of each of the following items (some items may ship separately):

Description	Part No.
Application note: Monitoring Volatile Organic Compounds in Beer Production Using the Clarus SQ 8 GC/MS and TurboMatrix™ Headspace Trap Systems	
Elite-5 Column Length: 60 m, Inner Diameter: 0.25 mm, Film Thickness: 1.00 µm, Temperature Limits: -60 to 325/350 °C	N9316080
2 mm Split Mode Quartz Liner for Programmable Split/Splitless Injector	N6121004
Thermogreen Low Bleed Injector Port Septa – 6/Pkg.	N6101748
Graphite/Vespel Ferrules, 1/16 in x 0.4 mm – 10/Pkg.	09920104
20 mL PTFE/Silicone Convenience Kit: contains 20 mm PTFE/Silicone assembly (100/pack), 22 mL crimp clear vials (100/pack) with write on patch and 20 mm caps (100/pack)	N9303992
TurboMatrix Air Monitoring Headspace Trap	M0413628
Ferrules for PTFE Cold Trap – 10/Pkg.	L4275110
Marathon Filament for GC/MS	N6470012
Ergonomic Manual 20 mm Hand Crimper	N6621037
<i>All contents can be ordered individually.</i>	

Every day, you can count on PerkinElmer to provide you with solutions that deliver reliable performance, control operating costs and maximize operational time. Our complete portfolio of consumables, part, supplies, training and service helps you meet both routine and demanding measurement challenges. We invest heavily in testing and validating our products to ensure you receive guaranteed compatibility and performance – on-time, for every instrument in your laboratory.

For complete listing of consumables and supplies, please visit www.perkinelmer.com/gcsupplies

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