



Microanalytics

Contract Analytical Services - Case Study

Case Study #11 Taste Defect in OTC Pharmaceutical Product

Internal Reference: Project Code Number L03235

Industry: Pharmaceutical

Commodity: Over-the-counter pharmaceutical product

Problem/Goal: Identify the origin of the objectionable odor and taste complained about by consumers.

Analytical Approach: SPME headspace collection of volatile odor compounds followed by analysis on the AromaTrax MDGC-O-MS system to identify and rank the importance of the offending odor compounds.

Findings: Two chemically related high impact odor compounds were identified that should not be in the formulation. These two compounds were responsible for the taste difference between the complaint samples and a control.

Resolution: An investigation was conducted to try to discover how the off-odor compounds got into the product.

Comments: The results from this project could be used to set up a simple QC method to monitor the product for the two offending compounds regardless of how they were introduced into the bad lots of product. This type of analysis is a prime candidate for the implementation of our QC-Trax methodology and we are developing an instrument specific for this and other similar materials.

Links for More Information

Aroma and malodor contract services: www.off-odor.com
Analytical instrumentation for aroma/malodor analysis: www.mdgc.com
GC-Trax Instrumentation: www.odorquality.com



Microanalytics[™]

Gas Chromatography Systems and Services

A **MOCON**[®] Company

2011A Lamar Drive - Round Rock, TX 78664

www.mdgc.com