Press Release

for immediate publication

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| **QC in soap manufacturing – simultaneous determination of total fatty matter, iodine value and more by Vis-NIR Spectroscopy** | |
| **Metrohm is pleased to present** [**a time- and cost-saving solution**](https://www.metrohm.com/en/applications/%7B1A780B61-72D1-478F-AAAA-F163ED75AE31%7D?fromApplicationFinder=true) **for the simultaneous determination of total fatty matter, iodine value as well as C8-C14 content in soap noodles. A set of 46 soap noodle samples was tested providing good results for standard error and accuracy. The application was performed on a Metrohm** [**NIRS XDS SmartProbe Analyzer**](https://www.metrohm.com/en#query=NIRS%20XDS%20SmartProbe%20Analyzer) **using** [**Vision Air Software**](https://www.metrohm.com/en/products-overview/spectroscopy/nirs%20lab%20analyzers/vision%20air%20software/)**.**  Control of crucial QC parameters in soap manufacturing still often relies on a mix of wet-chemical methods, mostly titration (for iodine number total fatty matter) and chromatographic methods (fatty acids). Vis-NIR Spectroscopy, on the other hand, helps to consolidate this multi-method approach but also benefits users with the inherent advantages of spectroscopic methods: It does require neither sample preparation nor consumables, there’s no waste to be disposed of, the method provides quasi real-time results, and it can applied at the push of a button.  This application demonstrates that Vis-NIR Spectroscopy is excellently suited for high throughput quality control of soap production steps. Moreover, it should be mentioned that Vis-NIR Spectroscopy can be used for the determination of additional quality parameters in soap and soap noodles like moisture, acid value, or active detergents. |  |

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