Automated Fatty Acid Analysis according to AOAC 996.01
Automated Fatty Acid Analysis (FAME) according to AOAC 996

- **Productive:** The system enables reliable, high-throughput operations without human intervention or instrument maintenance.
- **Fast:** A single sample is processed in 44 min. A batch of 6 samples is ready after 1:50 h.
- **Safe:** Increased workplace safety because dangerous chemicals (NaOH, BF₃) no longer have to be handled by humans.
- **Traceable:** Highest Process safety due to full traceability of the whole process via log files.

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Add [amount] of the extracted fat in a sample vial

Add 100 µL internal standard solution (optional)

Add 1000 µL methanolic NaOH 0.5 M

Stir vial at reflux temperature in agitator for 10 min

Add 1000 µL BF₃ in MeOH 12%

Stir vial at reflux temperature in agitator for 5 min

Add 2000 µL heptane

Vortex vial at room temperature for 30 s (LLE)

Add 1000 µL saturated aq. NaCl solution

Vortex vial

Wait for phase separation

Transfer 500 µL of the upper layer to a GC vial for injection

Inject sample

Start GC run

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Find more application notes on our webpage:

For more information on the PAL RTC and PAL RSI visit:

www.palsystem.com

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