

# SLK-200 MAYONNAISE AND SAUCES

## Dressing and Sauces Analyzer by Magnetic Resonance (NMR)

Mayonnaise, Ketchup, Mustard, others.

Simultaneous determination of OIL and MOISTURE content.

No need to dry or condition the sample.

Fast results obtained in seconds.

Quality control in the Mayonnaise production process.

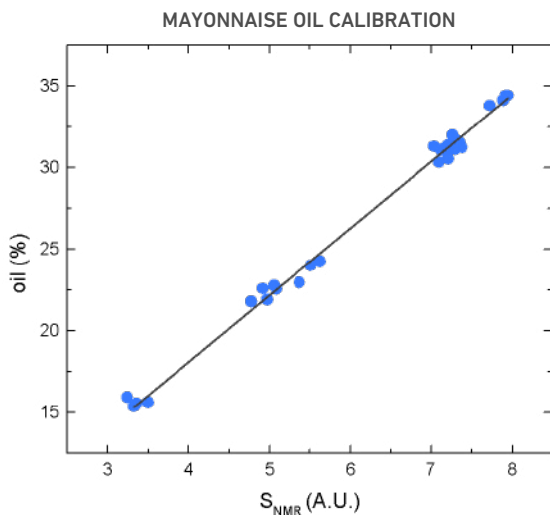


### MEASUREMENT 27 CM3 OF MAYONNAISE

	REPEATABILITY (95% Confidence Level)	PRECISION (95% Confidence Level)	MEASUREMENT TIME (MIN.)
OIL	±0.06 %	±0.9 %	5
MOISTURE	±0.07 %	±4 %	5

### Features:

- Sample size: 27 cm<sup>3</sup>, bulk.
- Non-destructive testing.
- No sample preparation needed.
- Fast and accurate results: < 5minutes.
- Portable and flexible device. Can be used for different dressings and sauces.
- Low maintenance requirements.
- User friendly software.
- Worldwide support: Spinlock Online Helpdesk and Spinlock Global Support Network



CORRELATION DATA		
% Oil ref	% Oil SLK	Err_oil
31.13	31.57	0.44
31.23	31.92	0.69
30.54	31.22	0.68
30.33	30.76	0.43
31.54	31.80	0.26
31.62	31.69	0.07
21.91	22.05	0.14
21.79	21.23	-0.56
24.24	24.72	0.48
23.99	24.25	0.26
33.8	33.32	-0.48
34.43	34.13	-0.30
34.13	34.01	-0.12
34.43	34.24	-0.19
31.23	31.11	-0.12

CORRELATION DATA		
% Oil ref	% Oil SLK	Err_oil
31.98	31.46	-0.52
30.99	31.22	0.23
31.11	30.88	-0.23
22.95	23.67	0.72
22.75	22.39	-0.36
22.57	22.51	-0.06
22.59	21.81	-0.78
31.1	30.88	-0.22
31.11	31.34	0.23
31.37	31.22	-0.15
31.31	30.53	-0.78
15.62	16.00	0.38
15.53	15.42	-0.11
15.36	15.31	-0.05
15.93	14.96	-0.97
stdv		0.45

## Application Abstract

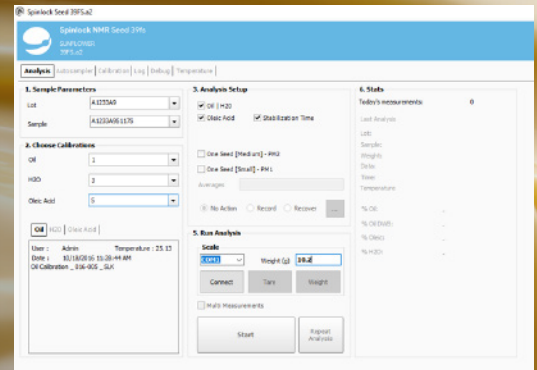
Spinlock has developed an analytical technique based on Nuclear Magnetic Resonance (NMR) spectroscopy for the simultaneous determination of oil and moisture content in dressing and sauces. This technology does not require sample preparation or the use of solvents. It is a fast, ecological and non-destructive method. No technical knowledge is required to use the equipment.

The SLK-200 spectrometer measures the percentage of oil and moisture in dressing and sauces samples. For the analysis, the samples are weighed and then inserted into the spectrometer for measurement. The determination does not take more than 5 minutes.

According to the type of sample, it is possible to construct general calibration curves. However, specific calibrations improve overall precision.

## Spinlock DRESSING AND SAUCES 39FS Software

- ✓ Runs on a PC with MS Windows.
- ✓ Does not require a qualified operator.
- ✓ Displays results live and stores them in a database that can be easily exported on .csv, or .pdf formats.



## Automation

### SLK-AS-30 AUTOMATIC SAMPLER

Designed to completely automate the operation of the SLK 200.

The SLK-AS-30 Auto Sampler will pick up a sample from a module containing sample tubes, weigh it, and insert it in the Spinlock equipment for measurement. Then it returns the sample again to its original position or may further classify it on a different criterion.

Scalable Modules: Includes three 20-sample modules.




## Technical Specifications

FREQUENCY OF OPERATION	11 Mhz
MAGNET	280 mT
POWER - AC VOLTAGE:	100-240 V 50 Hz
WEIGHT	50 kg
DIMENSIONS	43x39x29cm (16.9291x15.3543x11.4173 inch)
SAMPLE HOLDER	Teflon/Glass Ø 40 mm tubes



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