LACTOSENS®

- Rapidly measure concentration of lactose in lactose-free/low lactose dairy products

- Fast: Results in minutes
- Meets 0.01% regulatory level
- Available for all commonly used lactases, incl. NOLA™ Fit

Contact your local Chr. Hansen representative to learn more or go to www.chr-hansen.com
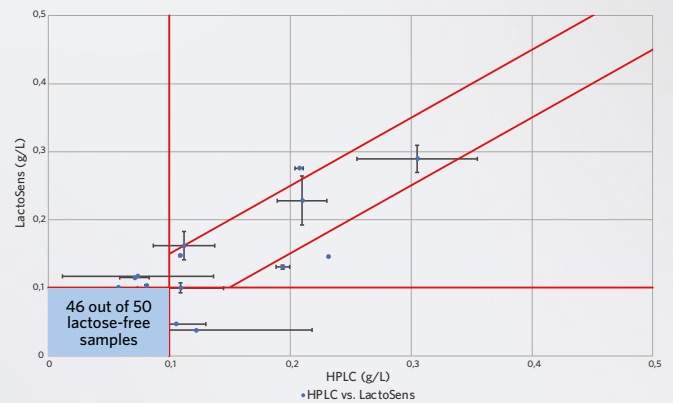
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Improving food & health

Experimental setup:
64 milk samples (50 lactose-free) were analyzed by LactoSens® leading to the following distribution. Additionally, the standard deviation of HPLC and LactoSens® values were added if available.

46 out of 50 lactose-free samples

• HPLC vs. LactoSens

Preparations:

• Connect LactoSens® reader and USB camera to PC

• Start LactoSens® software

LactoSens® Test Procedure for milk samples:

1. Dilute milk sample with the supplied ready-to-use buffer

2. Scan QR code on the sensor pouch

3. Unpack sensor and insert it into reader

4. Pipette 100 µl sample onto sensor area

5. Click start on software screen

6. Receive concentration result in <1 minute

Implementation:

• Software automatically saves all results to .csv file in customisable file location, making LIMS connection easy

• Lactose control included allows complete proficiency evaluation

• Complete traceability: batch number, expiry date, date and time, sample ID and more saved for every experiment

Conclusions:

• Excellent alignment between LactoSens® and HPLC analysis

• Standard deviations for LactoSens® equal to or better than HPLC

• Validation studies made on commercially available milk samples

Benefits:

√ Release products in minutes; as soon as the easy in-house testing confirms lactose concentration

√ Traceability: Document low lactose / lactose-free claims for every batch

√ Easy to use: very low training requirements

√ Validated against HPLC method at ISO 17025 accredited labs

Product details:

714978 LactoSens® 0.02% 25 (25 tests)

716703 LactoSens® 0.01% 25 (25 tests)

716755 LactoSens® for NOLA™ Fit (25 tests)

714977 LactoSens® Reader for all LactoSens® tests
(software included)

PC Requirements:

• Windows 7 or higher

• Min. free 25 MB disk (HD) space

• USB Interface (2 available ports)

• Display resolution min. 1280 x 800 pixel