CDR FOOD*LAB*

CHOLESTEROL | eggs

FOOD*LAB*

PURPOSE OF THE TEST

The average content of cholesterol in eggs is constant. Therefore it is possible to use this test to determine the amount of eggs contained in a specific food preparation.
The possibility of performing quick and simple tests enables manufacturers to directly change the processing parameters in real time. www.cdr-mediared.com/cholesterol-egg

REAGENTS

R1 (pre-vialed in cuvette): Phenol derivative - Buffer.
R2 (dropping bottle): Cholesterol oxidase - Peroxidase.

METHODOLOGY

Test type: End Point.
Color reading at 505 nm.
Testing time: 10 minutes.
It is possible to carry out test sessions with several samples, up to a maximum of 14.
Calibration can be attained by aligning test and reference values.

TEST PRINCIPLE

If placed in contact with specific enzymes, cholesterol reacts with a phenol derivative forming a red compound with an intensity that is directly proportional to the concentration of cholesterol in the sample, if measured at 505 nm. CDR's innovative method is simple, fast and uses micro-samples.

SAMPLE

Beaten eggs.

KIT

Pre-vialed disposable test tube.

KIT CODE	SAMPLE VOLUME	RANGE
*300398 (10 tests) *300395 (100 tests)	10 µL of beaten eggs	25 – 1450 mg/100g

analisi e sviluppo
sistemi cibernetici

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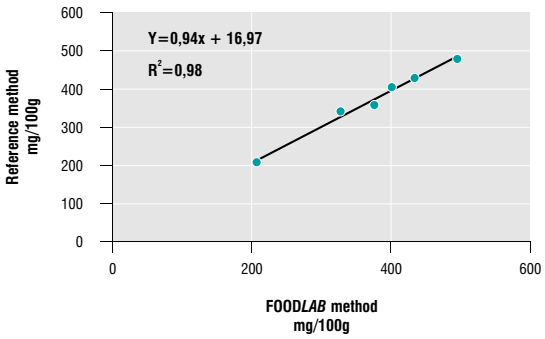
COMPARATIVE TESTS

Tests with samples of beaten eggs were carried out by a SINAL accredited laboratory in order to compare the reference method (gas chromatography on capillary column DB-5) with FOOD*LAB*'s method.

FOOD*LAB* method mg/100g	Reference method mg/100g
328	344
376	351
208	204
434	426
497	476
401	408



REPEATABILITY TESTS

Repeatability tests on beaten eggs.

Test	Beaten eggs mg/100g
1	333
2	321
3	307
4	326
5	321

AVERAGE	319
DS	8,18
CV	2,6%

SUMMARIZED TABLE

LINEARITY	ACCURACY	REPEATABILITY	CORRELATION COEFFICIENT	SENSITIVITY	TOTAL TESTING TIME	TEST/HOUR	UNIT OF MEASUREMENT
1450 mg/100 g	+/- 10%	CV <5%	R >0,98	25 mg/100 g	10 min	60	mg/100 g

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