

CDRPalmOilTester

Analysis system
for palm oil
quality control



CDR PalmOilTester system

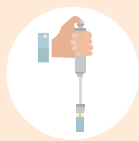
CDR PalmOilTester consists of a thermostatically controlled analyser with photometric technology using LED emitters and kits of reagents that are pre-filled into vials and ready to use.



1

Take the sample

to be analysed using the pipettes supplied with the system.



2

Place the sample

in the test tube containing the pre-filled reagent.



3

Insert the test tube

into the reading cell to obtain the analysis result.



Reduced analysis times

With **CDR PalmOilTester** you are finally free to carry out the analyses independently, during the production process, quickly and easily, without having to rely on an external laboratory. In fact, it is possible to analyse **16 samples simultaneously** and constantly monitor the production process, obtaining specific and precise answers in a few minutes.



Easy to use

The system has been designed so that it can be used **not only in the laboratory, but also on the production line for real-time results**, by personnel without specific technical training.

The analysis methods, shown on the display, are simpler than traditional methods and can be performed in just a few steps.

If required, the HELP function will guide the operator step by step through the procedure. The result is automatically calculated, displayed and printed out.



Reliable

CDR PalmOilTester guarantees high sensitivity, a wide measuring range and excellent repeatability of the results thanks to the innovative photometric technology using LED light sources and fixed wavelengths ranging from the ultraviolet to the visible spectrum (with a range of 0 to 6 optical density).

The analysis results are correlated with those of the reference methods.

Pre-filled and disposable reagents are packaged in bags of 10 tests, developed and produced by the CDR research laboratories.





	TEST	Measuring Range	Resolution	Repeatability	Test Time
Palm Oil	Acidity (FFA)	0.01 - 0.45 % of lauric acid	0.01 % of lauric acid	0.01 % of lauric acid	1 min
		0.03 - 1.00 % of lauric acid	0.01 % of lauric acid	0.02 % of lauric acid	1 min
		1.0 - 10.6 % of lauric acid	0.1 % of lauric acid	0.2 % of lauric acid	1 min
		0.01 - 0.54 % of palmitic acid	0.01 % of palmitic acid	0.01 % of palmitic acid	1 min
		0.03 - 1.00 % of palmitic acid	0.01 % of palmitic acid	0.02 % of palmitic acid	1 min
		1.0 - 12.6 % of palmitic acid	0.1 % of palmitic acid	0.2 % of palmitic acid	1 min
	Peroxides value	0.01 - 5.50 meqO ₂ /Kg	0.01 meqO ₂ /Kg	0.05 meqO ₂ /Kg	3 mins
		0.30 - 11.00 meqO ₂ /Kg	0.01 meqO ₂ /Kg	0.11 meqO ₂ /Kg	3 mins
		0.30 - 25.00 meqO ₂ /Kg	0.1 meqO ₂ /Kg	0.24 meqO ₂ /Kg	3 mins
		1.0 - 50.0 meqO ₂ /Kg	0.1 meqO ₂ /Kg	0.5 meqO ₂ /Kg	3 mins
	p-Anisidine Value	0.5 - 100.0 AnV	0.1 AnV	0.7 AnV	1 min
	Iodine Value (palm kernel/coconut)	2 - 100 I.V.	1 I.V.	1 I.V.	1 min
	Iodine Value (palm crude)	2 - 100 I.V.	1 I.V.	1 I.V.	1 min
	Iodine Value (palm refined)	2 - 100 I.V.	1 I.V.	2 I.V.	1 min
	DOBI & Carotene	0.10 -20.00	0.01	0.03	5 mins
0.1 - 1500.0 ppm β-carotene		0.1 ppm β-carotene	10.7 ppm β-carotene		

CDRPalmOilTester



Analyses	Complete analysis panel
Samples that can be analysed simultaneously	16
Multitasking Mode	Yes
Calibration	Pre-calibrated No periodic calibration is necessary
Maintenance costs	No
Storage of results	Sufficient internal memory for storing thousands of analysis results in CVS and XML files compatible with all database formats (e.g., XLS, SQL)
Photometric module	Up to 6 wavelengths in 4 reading cells
Incubation module	37 ° C thermostated block with 16 positions
Connection with barcode and QR code scanners	Yes, via Bluetooth
Display	5.7" TFT colour LCD with touch screen
Connectivity	1 USB port type B for transferring the performed analysis database, configuration and software update, PC connection 1 USB port type A for technical service and computer connection 1 Ethernet port (LAN) for connection to intranet Bluetooth 4.0
Printer	80 mm wide printer with integrated graphics
Dimensions and weight	32 x 29.5 x 13 cm (W x D x H) 2.80 kg
Power supply	24 V

rev 7.0

CDRPalmOilTester

CDR PalmOilTester is a system of **FOODLAB** line, developed by CDR S.r.l. Tel. +39.055.871431 • Fax +39.055.8714322
Via degli Artigiani, 6 • 50055 Ginestra Fiorentina • Florence - ITALY • info@cdrpalmoiltester.com - www.cdrpalmoiltester.com

