



CAROLINA
LIQUID CHEMISTRIES CORP.

Fentanyl Urine Detection Kit on the RYAN Immunofluorescence Analyzer

A rapid solution for testing fentanyl in urine



FENTANYL BACKGROUND

Fentanyl is a synthetic opioid drug that is prescribed to treat severe pain, such as advanced cancer pain or chronic pain in patients who have developed tolerance to other, less potent opioids. Fentanyl is 50 to 100 times more potent than Morphine.

Fentanyl overdose can result in fatality in minutes rather than hours.

PARENT DRUG VS METABOLISM

A person can test positive for fentanyl on a urine test for 12-72 hours after last use. Norfentanyl, the metabolite can be detected for up to 4 days (96 hours).⁽¹⁾

Detection Window



Test for fentanyl can detect the more recent use!

Source: (1) Silverstein JH, Rieders MF, McMullin M, Schulman S, Zahl K. An analysis of the duration of fentanyl and its metabolites in urine and saliva. *Anesth Analg.* 76(3):618-21 (1993).

BENEFITS OF FENTANYL TESTING



Connects people to addiction treatment.



Enables quick identification.



Facilitates follow-up and rehabilitation.

CAROLINA LIQUID CHEMISTRIES FENTANYL URINE DETECTION KIT

An ideal choice for testing fentanyl

The Carolina Liquid Chemistries Corp. Fentanyl Urine Detection Kit is a fluorescence immunoassay intended for the qualitative detection of fentanyl in human urine at a cutoff concentration of 1.0 ng/mL.

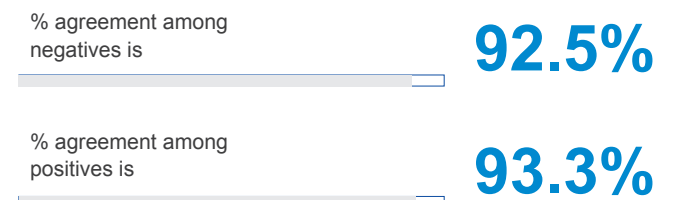
The assay is intended for use with the Carolina Liquid Chemistries Immunofluorescence Analyzer RYAN.



KEY POINTS

- **The First FDA Cleared and Categorized FIA FTY Test**
- **Cutoff as low as 1ng/mL**
- Qualitative screen in < 6 minutes
- Rapid use in the laboratory or at the point-of-care, moderate complexity
- Automated results eliminate the uncertainty of human interpretation of results
- This *in vitro* diagnostic device is for prescription use only

EXCELLENT SENSITIVITY AND SPECIFICITY



※80 clinical samples were analyzed by LC-MS/MS and by the Fentanyl (FTY) Urine Detection Kit (Fluorescence Immunoassay). Each sample was tested using three different lots of the device.

INSTRUMENT DESCRIPTION

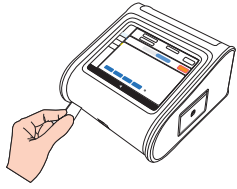
Name	Immunofluorescence Analyzer
Model	Carolina Liquid Chemistries Corp. RYAN
Method	Time-resolved fluorescence immunoassay
Sample Type	Urine
Speed	Results in <6 minutes. Quick mode up to 40T/hr*
Display	8 inch color touchscreen
Language	English, Chinese, German, Russian, Spanish, Portuguese, Italian, French
Memory	50,000 test records
Connectivity	Serial Port, USB, WLAN, LIS
Size	280 × 280 × 160 mm ± 5 mm
Weight	4.4 lbs (2 kg)



* Quick mode throughput estimate includes allowance for operator to enter patient information and handle sample.

TEST PROCEDURE

01



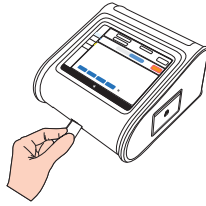
Read the ID chip first.

02



Add urine sample to the card's sample well.

03



Insert the test card into the analyzer after sample loading.

04



Choose "Standard Test" than click "Start Test."

05



5minute



The analyzer will time for 5 minutes then display the result automatically on the screen.

COMMON APPLICATIONS



Laboratory



Emergency Department



Pain Management



Law Enforcement and Criminal Justice



Athletics Screening

ORDER INFORMATION

Cat.No	Product Name	Pack Size
CLCF065025	Carolina Liquid Chemistries Corp. Fentanyl Urine Detection kit (Fluorescence Immunochromatographic Assay)	25 Test/Kit
CLCE01106	Carolina Liquid Chemistries Corp. Immunofluorescence Analyzer RYAN	1

Manufactured for

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CLC FTY RYAN V1 20230301.00 MAR 2023