



LABORATORY LINES

FLUOROMETER



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Fluorometer

YR412

A fluorometer measures the fluorescence parameters its intensity and wavelength distribution of emission spectrum after excitation by a certain spectrum of light. The Applications include chemistry/biochemistry, medicine, environmental monitoring. That means they are used to measure chlorophyll fluorescence to investigate plant physiology. These are key devices in any biological laboratory, especially for researches. That is why we are presenting you this high-technology device, to turn your lab into a trust-worthy company.

Fluorometer Instrument

YR412-A is your solution, because it is able to measure the absorbance of the whole ingredients (such as DNA, RNA, oligos and so on) of the sample at 260 nm, but be aware because that may make the read inaccurate. The fluorometer measures the fluorescence intensity of the fluorescent reagent, which combines with the target molecule to read the concentration of sample. Generally, the read is lower than Nano series products but is much more accurate.

The sensitivity of Nano series products are above 5 ng/ul, meanwhile the fluorometer is 0.5 pg/ul in measuring DNA concentration. It is important and necessary for most applications to read the lower and accurate concentration of the sample. Using the YR412-A fluorometer with the quantitation kit you can measure the sample concentration rapidly, sensitively and accurately.

Fluorometer applications

The YR412-A is a dual-channel fluorometer and it provides high-sensitive fluorescent detection when quantifying nucleic acids and proteins. It is simple and low-cost. Some of the applications are when the sample is scarce and difficult in processing. If there is low quantity of DNA, RNA, or protein after extraction and if the sample is going to be used in expensive experiments such as qPCR, PCR cloning, transfection, the next generation sequencing, among others.

Fluorometer technical background

Our nano series Micro-Spectrophotometer measure the concentration and purity of the sample, because it is able to measure the absorbance of the whole ingredient (such as DNA, RNA, oligos and so on) of the sample at 260nm, that may make the read inaccuracy. While the fluorometer measure the fluorescence intensity of the fluorescent reagent which combine with the target molecule to read the concentration of sample. Generally, the read is lower than Nano series products but much accuracy than it. The sensitivity of Nano series products are above 5ng/ul, and while the fluorometer is 0.5pg/ul in measuring DNA concentration. It is important and necessary for the most applications to read the lower and accuracy concentration of the sample. Using the YR412-A fluorometer with the quantitation kit can measure the sample concentration rapidly, sensitively and accurately.

YR412-A Simple, easy to use and applications

The YR412-A is a dual-channel fluorometer, it provides high-sensitive fluorescent detection when quantifying nucleic acids and proteins, simple

and cost to operate

Applications:

1. The sample is scarce and difficult in processing
2. The low quantity of DNA, RNA, or protein after extraction
3. The sample will be used in the expensive experiments: qPCR, PCR cloning, transfection, the next generation sequencing and etc.

Two detection models of YR412-A

High sensitivity of dsDNA Quantitation Kit: 0.2--100ng.

High sensitivity of ssDNA Quantitation Kit: 1--200ng.

Broad range of dsDNA Quantitation Kit: 100--1600ng.

Protein Quantitation Kit is researching.

YR412-A Quantitation kit operation.

Features:

1. Simple – 4.3-inch touch screen, small and easy to use
2. Easy measurement within 3 sec for DNA, RNA, and protein
3. High sensitivity – Lowest DNA detection limit is 0.5pg/ul
4. Two optical channels – Equipped with two fluorescence channels for nucleic acid, protein quantitation in one detection
5. Linear Dynamic Range--Five orders of magnitude.
6. Opening system--You can match the instrument with the reagent you choose
7. It can save at most 1,000 data and output data by USB port
8. Adapter: 0.5ml qPCR tube adapter 0.2ml qPCR tube adapter



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Fluorometer

Model:	YR412
Light source	LED
Dynamic range	Five orders of magnitude
Linear Dynamic Range	R > 0.995
Detector	Photodiode
Repeatability	< 1.5%
Stability	< 1.5%
Sensitivity	dsDNA: 0.5ng/ml
Measurement speed	3s (Once)
Dimension (W×D×H)mm	194×155×72.5 mm
Weight (kg)	0.4Kg

Channel	Excitation Filters	Normal kits	Applications
UV channel	365±20nm	Hoechst 33258, 4-MU EnZCheK Caspase	Nuclear acid quantification, Plant GUS reporter gene detection, Poptosis detection
Blue channel	460±20nm	PicoGreen®, oligreen, RiboGreen® GFP, Protein, Fluorescein, Quant-iT™	dsDNA, ssDNA, RNA quantification, GFP gene detection, Fluorescein detection, Protein detection
Green channel	525±20nm	Rhodamine, Cy3, RFP Vybrant Cytotoxicity	Rhodamine detection, Cy-3 fluorescence labeling detection, RFP gene detection, Cell activity poison detection
Red channel	625±10nm	Cy5, Quant-iT RNA	Cy-5 fluorescence labeling detection, RNA quantification



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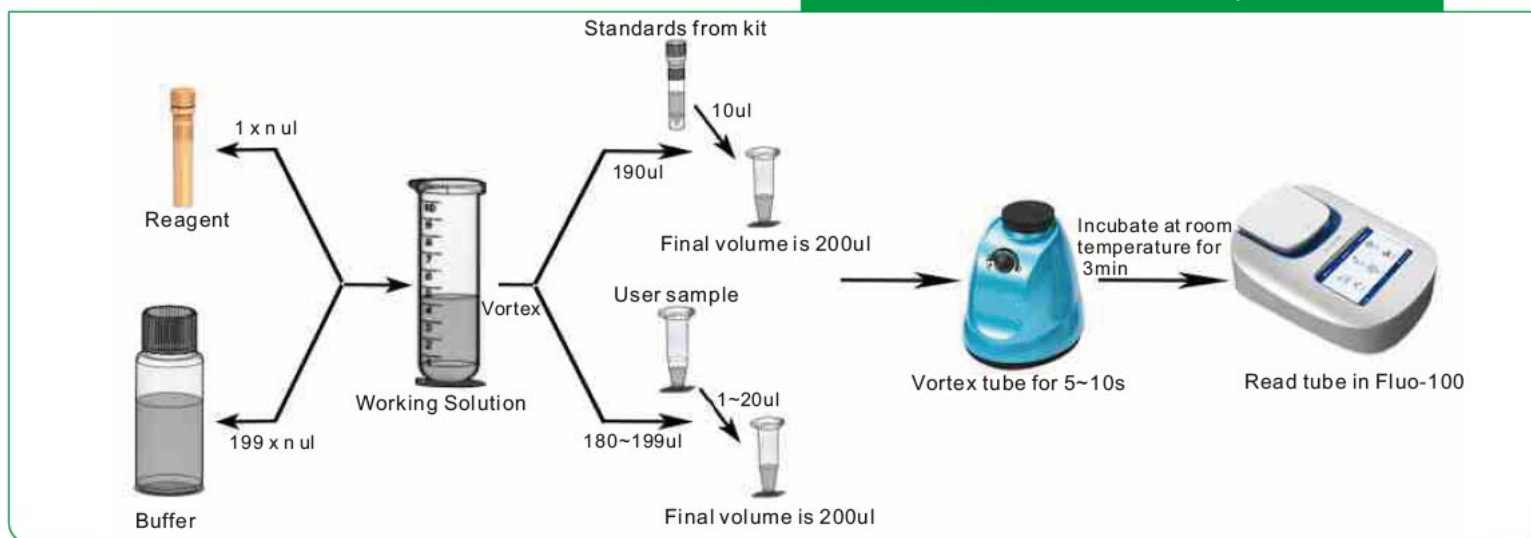
Fluorometer

YR412



Code	Light	Excitation Filters	Emission Filters
YR412-A	UV	365±20nm	420-480nm (60nm)
	Blue	460±20nm	525-570nm (45nm)
YR412-B	Blue	460±20nm	525-570nm (45nm)
	Red	625±20nm	670-725nm (55nm)
YR412-C	Blue	460±20nm	525-570nm (45nm)
	Green	525±20nm	575-640nm (65nm)

YR412 Quantitation kit operation



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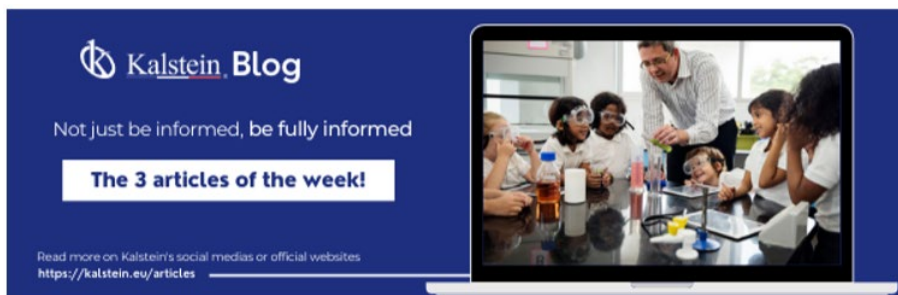
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microscope is an instrument that allows observing and measuring objects that are too small to be seen with the naked eye. This is achieved through a complex system of lenses and mirrors, which form

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2
Read this ARTICLE NOW

What is the importance of the laboratory refrigerator?

refrigerator is a device that is one of the most common pieces of equipment used in laboratories. It is a controlled environment (refrigerated space), various fluids and substances

Kalstein Blog

Article of the week:
What is the importance of the laboratory refrigerator?

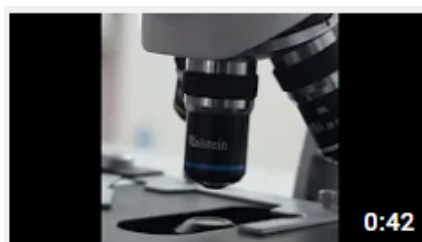
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