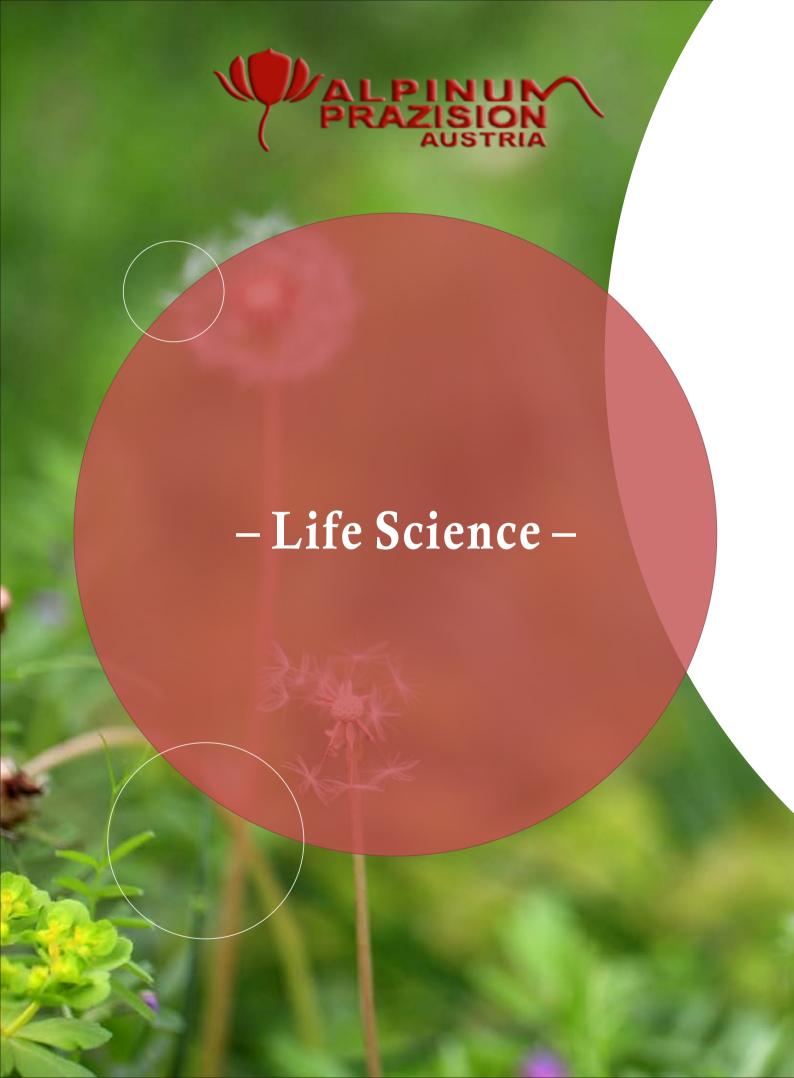




Fluorometer

LIFE SCIENCE

Alpinum Prazision Austria GmbH & Co. KG





CarnisFluo-100 Fluorometer



Our Carnisnano series Micro-Spectrophotometer measure theconcentration and purity of the sample, because it is ableto measure the absorbance of the whole ingredient(suchas DNA, RNA, oligos and so on) of the sample at 260nm,that may make the read inaccuracy. While the fluorometermeasure the fluorescence intensity of the fluorescentreagent which combine with the target molecule to readthe concentration of sample. Generally, the read is lowerthan CarnisNano series products but much accuracy than it

The sensitivity of CarnisNano series products are above 5ng/ul, and while the fluorometer is 0.5pg/ul in measuring DNAconcentration. It is important and necessary for the mostapplications to read the lower and accuracy concentration of the sample. Using the CarnisFluo-100 fluorometer with thequantitation kit can measure the sample concentrationrapidly, sensitively and accurately



<u>02</u>

Fluo-100 Simple, easy to use and applications

The CarnisFluo-100 is a dual-channel fluorometer, it provideshigh-sensitive fluorescent detection when quantifying nucleic acids and proteins, simple and cost to operateApplications:

- 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.

03 Fluo-100 Highlights

- 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



04 Two detection models of CarnisFluo-100

Code	Light	Excitation Filters	Emission Filters
CamisFluo-100A	UV	365±20nm	420-480nm (60nm)
	Blue	460±20nm	525-570nm (45nm)
CarnisFluo-100B	Blue	460±20nm	525-570nm (45nm)
	Red	625±10nm	670-725nm (55nm)
CarnisFluo-100C	Blue	460±20nm	525-570nm (45nm)
	Green	525±20nm	575-640nm (65nm)

05 CarnisFluo-100 Quantitation kit

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

Specification Light source LED Dynamic range Five orders of magnitude Linear Dynamic Range $R^2 > 0.995$ Detector Photodiode Repeatability <1.5% Stability <1.5% dsDNA: 0.5ng/ml Sensitivity Measurement speed 3s (Once) Dimension (W×D×H)mm 194 × 155 × 72.5 mm Weight (kg) 0.4Kg

CarnisFluo-100 Quantitation kit operation Standards from kit 10ul 190ul Reagent Incubate at room Final volume is 200ul temperature for 3min User sample Vortex tube for 5~10s Read tube in CarnisFluo-100 Working Solution -20u 199 x n ul 180~199ul Final volume is 200ul Buffer

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

Ordering information Code Code Description Description AS-18010-00 RS-FL0101-S CarnisFluo-100A Fluorometer, DC12V 1A High-sensitivity dsDNA Quantitation kits (100 assays) High-sensitivity dsDNA Quantitation kits (200 assays) RS-FL0101-M AS-18020-00 CarnisFluo-100B Fluorometer, DC12V 1A RS-FL0101-L High-sensitivity dsDNA Quantitation kits (1000 assays) Broad-range dsDNA Quantitation kits (100 assays) AS-18030-00 RS-FL0102-S CarnisFluo-100C Fluorometer, DC12V 1A Broad-range dsDNA Quantitation kits (200 assays) RS-FL0102-M AS-18011-01 Adapter for 0.5ml qPCR tube (Standard) Broad-range dsDNA Quantitation kits (1000 assays) RS-FL0102-L AS-18011-02 RS-FL0103-S High-sensitivity ssDNA Quantitation kits (100 assays) Adapter for 0.2ml qPCR tube (Options) RS-FL0103-M High-sensitivity ssDNA Quantitation kits (200 assays) High-sensitivity ssDNA Quantitation kits (1000 assays) RS-FL0103-L