

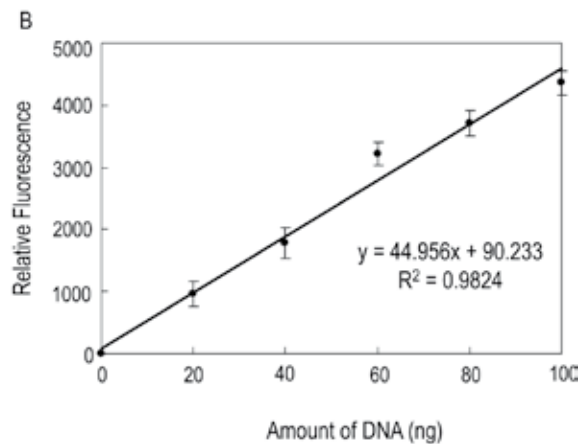
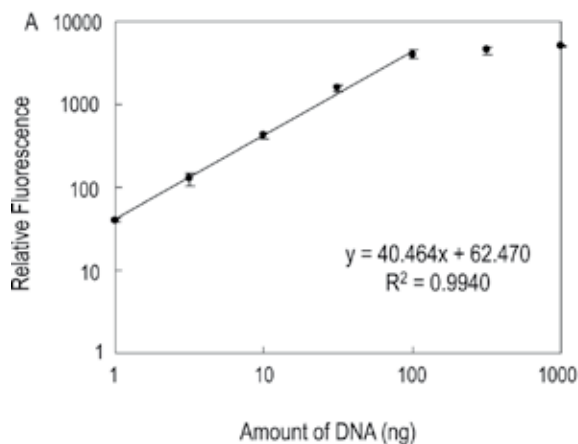


■ EvaGreen - DNA quantification in solution

- ▶ Linear response on the range of 1–100 ng
- ▶ Sample size : 50 µl
- ▶ Standard filter set : $\lambda_{exc.} / \lambda_{em.}$: 490/520 nm
- ▶ Requires small amounts of DNA and dye

The intensity of fluorescence (relative fluorescence units) is proportional to the total amount of DNA per tube rather than the concentration of DNA in the tube.

Wang W. et al. has used the EvaGreen for DNA quantification on 25 µl sample with linear response from 1 ng to 100 ng (Analytical Biochemistry, Volume 356, Issue 2, Pages 303-305 (2006)) : Figure A and B. A strong linear relationship is observed when the amount of DNA is less than 100 ng (Fig. A), and this is very reproducible (Fig. B).



Relationships between fluorescence intensity and the amount of DNA per tube : Triplicate samples of DNA in the range of 1–1000 ng (A) or 0–100 ng, (B) were added to PCR tubes containing 1.25 µl of EvaGreen (20X concentrate), and water was added to make a final volume of 25 µl.

Description	P/N :	Qty
EvaGreen 20X in PBS	BI1790	5 x 1 ml (1000 assays)
EvaGreen 20000X in DMSO	CA6770	1 ml (200 000 assays)

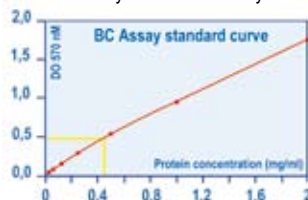
Related products :

DNA from lambda phage, as standard for DNA quantification	UP947860	100 µg
Hoechst 33258, for high concentration DNA quantification	FP-61248A	100 mg
DNA dosage by UV with only 5 µl sample, using IMAplates	see description page 72	

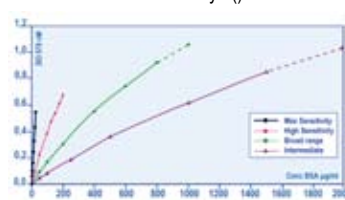
Other application of the EvaGreen in the BioScience Innovation catalog.

Interchim proposes 3 methods to assay proteins in microplates :

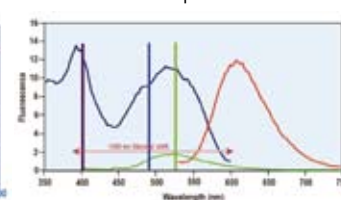
Colorimetric/BCA method :
BC Assay & MicroBC Assay



Colorimetric/Bradford method :
CooAssays ()



Fluorescent/Epicocconone :
LavaPep method



Sensitivity :	0.5 µg/ml (MicroBC Assay) 20 µg/ml (BCA assay)	1-25 µg/ml (max sens.protocol) 50-1500 µg/ml (Broad range protocol)	50-160 pg/ml peptide, proteins
Linear range :	1-250 µg/ml (MicroBC Assay) 20-2000 µg/ml (BCA assay)	1-25 µg/ml (max sens.protocol) 50-1500 µg/ml (Broad range protocol)	100 ng/ml-160 µg/ml
Reading	562 nm	570-610 nm	405-500/560-610 nm
Comments : advantages	The most reliable method Compatible with most detergents , bases, DNA, lipids Broader linearity Lowest variations between proteins	Quick (1-10 min) Compatible with reducers	Ultimate sensitivity and linearity Peptide dosage Biodegradable Robust, amenable to N-term sequencing, MS and functional assays
Comments : limitations	Need 37°C incubation or longer time	Limited compatibility (reducers, acids, some detergents)	Limited compatibility

Description	P/N :	Qty
BC Assay protein determination kit Bicinchoninic acid based method-590nm. Contains : 1L reagent sufficient for 500/5000 tests (tube/µplate), and 10 x 1 ml BSA standard 2 mg/ml	UP4080A UP4080B	1 kit-1 L 1 kit-250 ml
MicroBC Assay protein determination kit Version of BC Assay with sensitivity 0.5 µg/ml. Contains : 1L reagent sufficient for 500/3400 tests, and 10 x 1 ml BSA standard 2 mg/ml	UP75860A UP75860B	1 kit-1 L 1 kit-50 ml
Coo Assay protein determination kit Modified Bradford (Coomassie based method). Contains : 1L reagent sufficient for 500/4000 tests (tube/µplate), and 10 x 1 ml BSA standard 2 mg/ml	UPF86400 UPF86401	1 kit-1 L 1 kit-250 ml
LavaPep peptide & proteins assay Epicocconone based method. Contains : Dye concentrate 10X, Buffer concentrate 10X	CH4191	1 Kit (up to 2000 tests)

Order together the following reagent to render these protein assays compatible with any interfering substance !

Protein Preparation kit
Réf. : R5594A 500 ml

Biochemistry tests for biologicals samples

Interchim provides a whole range of biochemistry assays for clinical chemistry (Blood, Urine, CerebroSpinal fluids,...) as well as for other samples (food, soil, water...) analysed in agro-alimentary industry or environment study. Here is a short selection of assay kits.

Description	P/N :	Qty
Glucose assay Hexokinase/G6PDH based method. Reading at 500 nm. Linear to 400 mg/dL. For serum, plasma or urine. 5 min procedure.	BD1850	1 Kit (120 ml)
Creatinine assay Enzymatic method. Reading at 546 nm. Linear to 30 mg/dL. For serum, plasma and urine samples.	BP9991	1 Kit (30 ml)
β-Hydroxybutyrate assay Enzymic method. Reading at 505 nm. Linear to 4.5 nmol/L. For serum or plasma.	AL2230	1 Kit (60 ml)
Glucose assay Hexokinase/G6PDH based method. Reading at 340 nm. Linear 1-80µg/ml. For food stuff and beverage.	U67120	1 Kit (40 tests)
Glycerol assay Enzymatic method. Reading at 330/334/365 nm. One component. For food stuff and beverage.	R51065A	1 Kit (4 x 10 tests)
Cholesterol assay Enzymatic CHOD/PAP method. Reading at 546 nm. For food stuff and beverage.	R5756A	1 Kit (4 x 10 tests)

Contact us for other analytes in biological samples (Calcium, Bilirubin, HDL, Urea, ... / Maltose, Fructose, Starch, Malate, Lactate,...).