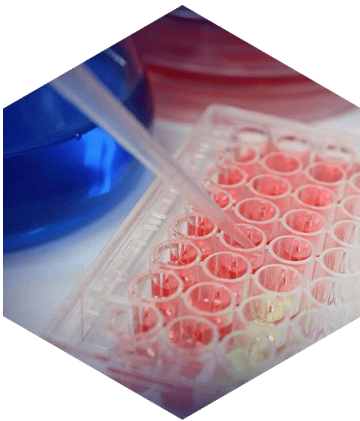


# AquiPEP, Fluorescent Protein Assay

*New generation of fluorescent labels, non toxic, and more sensitive for quantify low-abundance proteins.*

**AquiPEP** Protein & Peptide Quantification Kit offers a complete protein quantification assay. **AquiPEP** is significantly more sensitive than existing standard colorimetric measurements (ninhydrin, Lowry, BCA).



**AquiPEP** is an eco-friendly fluorescent dye that covalently and reversibly binds to lysine, arginine and histidine residues in proteins and peptides to yield an intensely red-fluorescent product ( $\lambda_{Exc} = 518 \text{ nm}$ ,  $\lambda_{Em} = 610 \text{ nm}$ ). This assay exhibits very low protein-to-protein variation, leading to more accurate protein concentration values. **AquiPEP** can effectively stain glycosylated proteins, phosphoproteins, crosslinked (disulfide containing) proteins, metalloproteins, hydrophobic proteins, and lipoproteins.

- ✓ **Sensitivity:** up to 100 ng/mL (peptide) and 40 ng/mL (proteins) can be accurately quantified
- ✓ **Wide Range of convenient assay volumes:** 100  $\mu\text{L}$  – 3 mL
- ✓ **Wide dynamic range:** over 3-orders of magnitude
- ✓ **Easy, simply:** mix 1 part working solution with 1 part of sample
- ✓ **Quick:** no heating and reduction steps, data can be read within 60 min
- ✓ **Robust to interfering compounds:** such as DNA, Detergents, DTT and Urea.
- ✓ **Stability:** Signal is not affected by light or temperature and remains stable for up to 6 hours
- ✓ **Eco-friendly and Safe:** non-toxic dye, Free of heavy metals, strong solvents and acids
- ✓ **Flexible:** Wide range of fluorescence measuring instruments can be used
- ✓ **Compatible** with downstream analysis such as 1-D and 2DGE, MS, and HPLC
- ✓ **Peptides are not precipitated or denatured** and can be used in subsequent assays
- ✓ **Ideal for high throughput**

**AquiPEP** Fluorescent Protein Assay, 10 mL, is sufficient for 2 000 assays.