

SERVA Purple

SERVA ProteinStain Fluo-Y

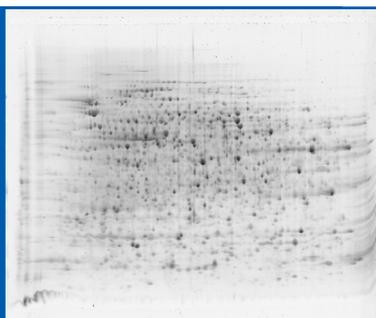
SERVA

serving
scientists!

Highly Sensitive Fluorescence Dye in 1D and 2D PAGE

SERVA Purple - a well-established fluorescent dye for 1D and 2D PAGE

The new fluorescent dye SERVA Purple is suitable for staining proteins in gels and on blotting membranes. The synthetic dye is based on the chemical structure of a small naturally occurring fluorescent compound Epicocconone. It reversibly binds to lysine, arginine, and histidine residues in proteins and peptides to yield an intensely red-fluorescent light emission (excitation at 530 nm, emission at 610 nm). This unique mechanism provides sensitive quantification of proteins in 1D and 2D gels of all chemistries, on both PVDF and nitrocellulose blots and provides unparalleled compatibility with mass spectrometry.



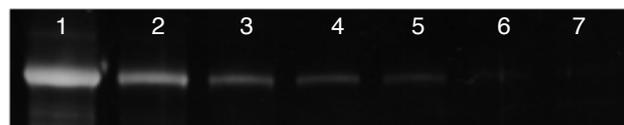
2D PAGE of *E. coli* extract:
1st dimension on SERVA IPG BlueStrip (24 cm/3-10), 2nd dimension on SERVA HPE™ Large Format Gel 12.5 % NF, stained with SERVA Purple.

SERVA Purple is the next generation of LavaPurple. It has improved properties due to a novel production and purification technology by unchanged cost-effectiveness compared to other fluorescence dyes or even silver staining. Staining protocols used for LavaPurple can be applied without any alteration. Comparative staining tests within SERVA and in some customer laboratories have produced excellent results, absolutely comparable to results achieved with the predecessor Epicocconone dyes.

- Environmentally friendly, easy to use
- Sensitivity to as low as 50 pg/spot
- Linear quantification over 4 orders of magnitude
- Compatible with MS, Western blotting etc.

SERVA ProteinStain Fluo-Y - fast and sensitive fluorescent staining of 1D and 2D gels

After fixation gels are directly stained with SERVA ProteinStain Fluo-Y in a two-step protocol, destaining is usually not necessary. The whole staining procedure is completed in as little as 30 min.



Serial dilution of BSA, volume per lane = 5 μ l each, separated on SERVA Gel™ TG PRIME™ 4 - 12. Total protein content per band is: 1 = 2.5 μ g, 2 = 0.5 μ g, 3 = 0.1 μ g, 4 = 50 ng, 5 = 25 ng, 6 = 5 ng, 7 = 1 ng. Stained with SERVA ProteinStain Fluo-Y.

The bound dye emits a strong fluorescence of bright golden colour with a maximum emission wave length near 570 nm. Stained gels may be therefore directly visualized with a variety of different UV-based fluorescence imaging systems. Increase your detection sensitivity to the level of fluorescence staining without the need of investment into expensive equipment.

- Sensitivity to as low as 1 ng/band
- Linear quantification over 3 orders of magnitude
- Directly detected by UV-imaging system
- MS compatible - dye is removable from gel by washing with water

Ordering Information

Product	Quantity	Cat. no.
SERVA Purple	25 ml	43386.01
	4 x 25 ml	43386.02
SERVA ProteinStain Fluo-Y	10 ml	35092.01