

# AdvanStain Scarlet™

Fluorescent total protein stain for gels and blots

**AdvanStain Scarlet** is a fluorescent stain for gels and blots that allows sensitive and quantitative visualization of proteins. Gels and blots stained with AdvanStain Scarlet can be imaged on any fluorescent imaging system, including laser- and CCD-based systems, with a detection limit of less than 1 ng of protein per band or spot. Fully compatible with downstream Western blotting or mass spectrometry, AdvanStain Scarlet is non-toxic and biodegradable, for safe and simple disposal.



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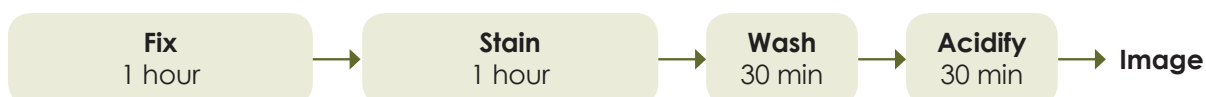


# AdvanStain Scarlet™

## Fluorescent total protein stain for gels and blots

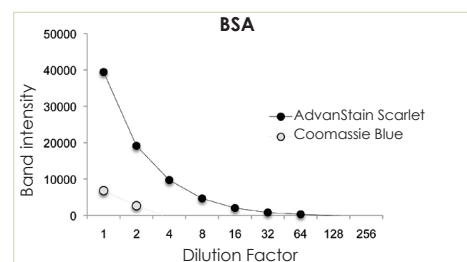
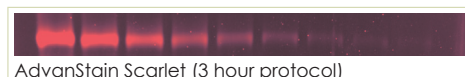
AdvanStain Scarlet offers the convenience of a fast protocol, provides excellent sensitivity, and exhibits lower background than other fluorescent stains.

### Fast Protocol, Excellent Sensitivity

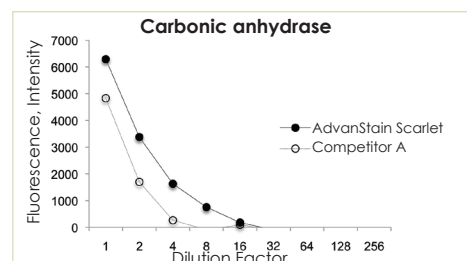
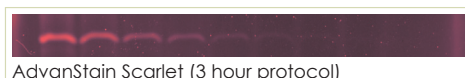


**AdvanStain Scarlet outperforms both Coomassie blue and Competitor A in time and sensitivity.** Gels were stained with AdvanStain Scarlet, Competitor A, or Coomassie blue stain, according to the manufacturers' protocols and imaged on a CCD imager.

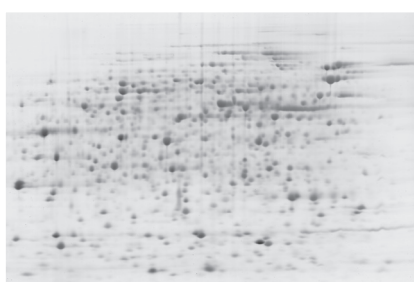
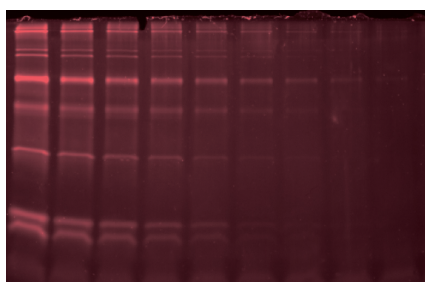
#### BSA



#### Carbonic Anhydrase



### Stain 1D and 2D Gels



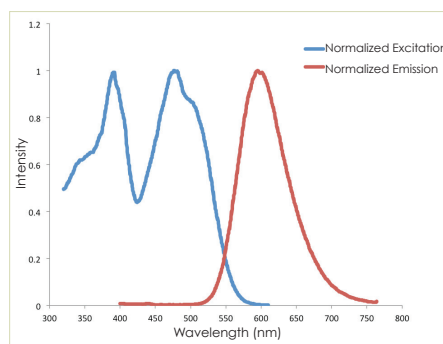
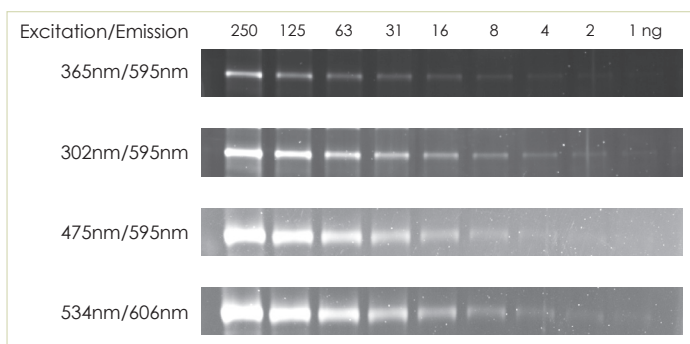
**AdvanStain Scarlet stains 1D and 2D gels** in less than 3 hours, with high sensitivity, low background, and no speckling.

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Fluorescent total protein stain for gels and blots



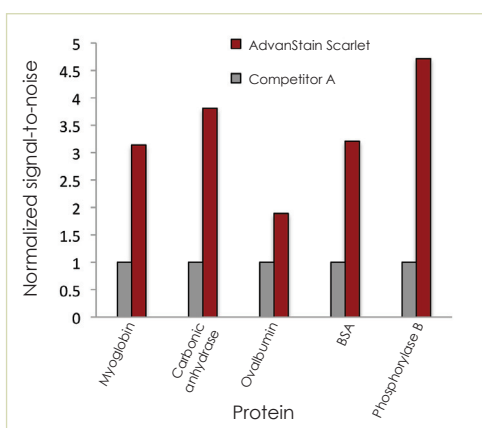
Compatible with Multiple Imaging Systems



Excitation and Emission Spectra of AdvanStain Scarlet

**Versatility in imaging.** A gel containing a serial dilution of BSA protein was stained with AdvanStain Scarlet and imaged on a CCD imaging system using a variety of excitation and emission conditions.

## Superior Signal to Noise



**AdvanStain Scarlet provides a higher signal-to-noise ratio than Competitor A.** Serial dilutions of several proteins were separated on duplicate 1D gels stained with either AdvanStain Scarlet or Competitor A, according to each manufacturer's instructions. For each protein, signal-to-noise values were normalized to the value obtained for the protein on the Competitor A-stained gel. AdvanStain Scarlet provided a signal-to-noise ratio at least 2-times greater than Competitor A for each protein. The lower background observed with AdvanStain Scarlet is responsible for the higher signal-to-noise ratio, increasing confidence in quantitation of low-abundance bands and spots.

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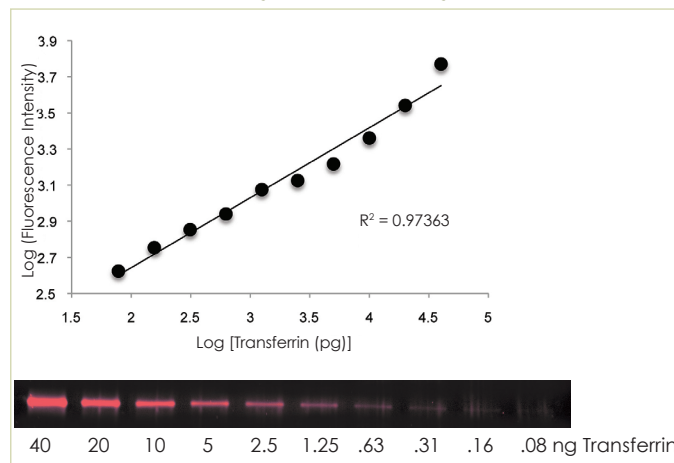
## Fluorescent total protein stain for gels and blots

**AdvanStain Scarlet** is sensitive, quantitative, non-toxic, and fully compatible with downstream applications including Western blotting and mass spectrometry.

### Features

- **Sensitive** – detect less than a nanogram of protein per spot
- **Convenient** – simple 3-hour protocol
- **Flexible** – stain gels or membranes
- **Reversible** – destain for downstream Western blotting or mass spectrometry
- **No speckling** – clean background and no speckling for better data
- **Safe** – biodegradable and contains no heavy metals for increased safety and simple disposal
- **Compatible** – image with any laser or CCD imaging system. Compatible excitation wavelengths include green (543, 532 nm), blue (488 nm), violet (405 nm) and UV (302, 365 nm). Maximum emission wavelength is 610 nm.

### High Sensitivity, Large Dynamic Range



**Quantitative staining with AdvanStain Scarlet.** A gel containing serial dilutions of transferrin protein was stained with AdvanStain Scarlet and imaged on a CCD imaging system (excitation 534 nm, emission 606 nm). Less than 1 ng of protein per band can be detected, and signal is linear more than 2 orders of magnitude.

### Ordering Information

Catalog Number	Product	Size
AD-1000	AdvanStain Scarlet Kit (sufficient for staining 20 minigels)	5 ml
AD-1001	AdvanStain Scarlet Kit (sufficient for staining 100 minigels)	25 ml

### Related Products

541068	Afyon™ SDS-PAGE Sample Preparation Kit	10 rxns
541069	Afyon™ SDS-PAGE Sample Preparation Kit	25 rxns
541004	WesternBright™ ECL Western Blotting HRP Substrate (for 2000 cm <sup>2</sup> membrane)	200 ml
541005	WesternBright™ ECL Western Blotting HRP Substrate (for 5000 cm <sup>2</sup> membrane)	500 ml
541040	Low-Fluorescence PVDF Transfer Membrane 7x9 cm	10 sheets
541041	Nitrocellulose Transfer Membrane 0.45 µm 8x10 cm	10 sheets
541042	Nitrocellulose Transfer Membrane 0.22 µm 8x10 cm	10 sheets

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### Advansta Corporation

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