

DOMINIQUE DUTSCHER SAS

Amersham™ CyDye DIGE Fluor Kits

CyDye DIGE Fluor minimal dyes and saturation dyes are size- and charge-matched fluorescent dyes specifically designed for detecting protein abundance differences in 2-D Fluorescence Difference Gel Electrophoresis using Ettan DIGE system.

Overview

CyDye DIGE Fluor minimal dyes and saturation dyes are size- and charge-matched fluorescent dyes specifically designed for detecting protein abundance differences in 2-D Fluorescence Difference Gel Electrophoresis using Ettan DIGE system.

- Allow detection of up to three prelabeled protein samples and standards on the same 2-D electrophoresis gel.
- Size- and charge-matched dyes enable co-migration of labeled samples within the gel.
- Bright and highly sensitive dyes allow the use of the minimal labeling technique.
- Minimal loss of signal during labeling, separation, and scanning.
- No change in signal over wide pH range used during first-dimension (IEF) separation.
- Discrete signal from each fluor with minimal cross-talk contributes to high accuracy.

CyDye DIGE fluors are available as minimal and saturation labeling dyes. The minimal dyes are intended for general 2-D application use where sufficient amounts of sample are available. The saturation dyes from the Scarce Sample Labeling Kit are designed to be used for applications where only small amounts of sample are available, for example in Laser Capture Microdissection. In total, three minimal dyes and two saturation dyes are available.

CyDye DIGE fluors are exceptional dyes for multicolor analysis, offering bright and intense colors with narrow excitation and emission bands. The fluors are spectrally distinct, making them highly suitable for multicolor detection. CyDye DIGE fluors utilize these benefits but are also size- and charge-matched specifically for 2-D DIGE using Ettan DIGE system.

Product specifications

Amersham CyDye DIGE Fluor Labeling Kit for Scarce Samples and Preparative Gel Labeling

Catalog code	25800984
Order Information	Dimethylformamide (DMF) has to be ordered separately.
Fluorescence Color	Green, Red
Storage conditions	-15 to -30°C
Kit contents	100 nmol CyDye DIGE fluor Cy3 saturation dye for analytical labeling 100 nmol CyDye DIGE fluor Cy5 saturation dye for analytical labeling 400 nmol CyDye DIGE fluor Cy3 saturation dye for preparative labeling
Physical State	Solid
Color	Red, Blue
Solubility	Soluble in cold water and hot water
Estimated shelf life from manufacture date	8 - 12 months, for unreconstituted dye
Capacity	For labeling of 25 analytical reactions and preparative labeling of up to 500 µg protein
Wetted Part	No
Guidance	Dimethylformamide (DMF) dissolves the dyes and TCEP Tris-2-carboxyethyl phospine hydrochloride reduces disulfide bonds prior to saturation labeling on cysteines.
DIGE approved	Y

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