Specification





Fast Green FCF (C.I. 42053)

A1401

Synonym	Food Green 3
Formula	$\mathrm{C}_{37}\mathrm{H}_{34}\mathrm{N}_{2}\mathrm{Na}_{2}\mathrm{O}_{10}\mathrm{S}_{3}$
M	808.86 g/mol
CAS-No.:	2353-45-9
HS-No.:	32041900
EC-No.:	219-091-5
Storage:	RT
LGK:	10 - 13
R:	68
S:	36/37
×	harmful
WGK:	3*
Specification	
λ _{max.} (50 %, EtOH)	622 - 626 nm
E 1 %/1 cm, λ _{max.}	1360 - 1610
Loss on drying	max. 10 %

Literature

- (1) Gorovsky, M.A. *et al.* (1970) *Anal. Biochem.* **35**, 359-370 Simple method for quantitive densitometry of polyacrylamide gels using Fast green.
- (2) Bertolini, M.J. et al. (1974) Anal. Biochem. 71, 6-13 Staining and destaining polyacrylamide gels: A comparison of Coomassie® blue and Fast green protein dyes.
- (3) Wilson, C.M. (1979) *Anal. Biochem.* **96**, 263-278 Studies and critique of Amido black 10 B, Coomassie® blue R and Fast green FCF as stains for proteins after polyacrylamide gel electrophoresis.
 - (4) Allen, R.E. et al. (1980) Anal. Biochem. 104, 494-498 Staining of proteins in IEF gels with Fast Green.

The Journey to Discovery starts here. The Commitment to Excellence starts now. TM

Specification





Fast Green FCF (C.I. 42053)

A1401

Comment

The staining with Fast Green differs from author to author, like those for Coomassie® brilliant blue. Here we just present three examples:

I. (Ref. 1) Staining with 1 % (w/v) Fast Green in 7 % acetic acid for 2 hours at +4°C or room temperature. Destaining in 7 % acetic acid with several changes of the acid for more than 48 - 72 hours.

II. (Ref. 2) Staining with 0.25 % (w/v) Fast Green in 10 % acetic acid for 2.5 - 3 hours at room temperature. Destaining in 10 % acetic acid or 10 % acetic acid / 30 % ethanol for 18 hours at room temperature and 18 hours at 37°C or 3 hours at 60°C and 15 hours at room temperature.

III. (Ref. 4) Staining in 0.25 % (w/v) Fast Green in 10 % acetic acid (2x filtered) for 5 minutes Destaining in 10 % acetic acid and 30 % methanol between 24 - 72 hours. (Note: Alcohol leads to shrinking of polyacrylamide gels).

