Specification

Xylene cyanol FF (C.I. 42135) *BioChemica* A1408

Synonym	Cyanol FF
Formula	$C_{25}H_{27}N_2NaO_6S_2$
M	538.61 g/mol
CAS-No.:	4463-44-9
HS-No.:	32041900
EC-No.:	224-728-5
Storage:	RT
LGK:	10 - 13
R:	36
S:	24
	irritant
WGK:	1
Specification	
$\lambda_{max.}$ (H_2O)	613 - 616 nm
Loss on drying (110°C)	max. 6 %

Literature

(1) Maxam, A.M. & Gilbert, W. (1977) *Proc. Natl. Acad. Sci. USA* **74**, 560-564 A new method for sequencing DNA.
(2) Ogden, R.C. & Adams, D.A. (1987) *Methods Enzymol.* **152**, 61-87 Electrophoresis in agarose and acrylamide gels.
(3) Sambrook, J., Fritsch, E.F. & Maniatis, T. (1989) *Molecular Cloning:* A Laboratory Manual, 2nd Edition, page 6.12. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York.
(4) Ausubel, F.A., Brent, R., Kingston, R.E., Moore, D.D., Seidman, J.G., Smith, J.A. & Struhl, K. (eds.) 2000. *Currrent Protocols in Molecular Biology*. Page 7.6.5 Suppl. 16 John Wiley & Sons, New York.

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Comment

Bromophenol blue (BPB) and xylene cyanol FF (XC) are the most widely used stains in gel electrophoresis for tracing the migration of samples on electrophoretic gels. Usually, both stains are added to the sample buffers (loading buffers; see our *ready-to-use* **loading buffers**) at concentrations of 0.05 % to 0.25 %.
In **denaturing** gels, the dye migrates with sizes like the following oligonucleotide:

Polyacrylamide (%)	**Bromophenol blue**	**Xylene cyanol** (according to ref. 1, 4)
5	35 bases	130 bases
6	26 bases	106 bases
8	19 bases	75 bases
10	12 bases	55 bases
20	10 bases	28 bases