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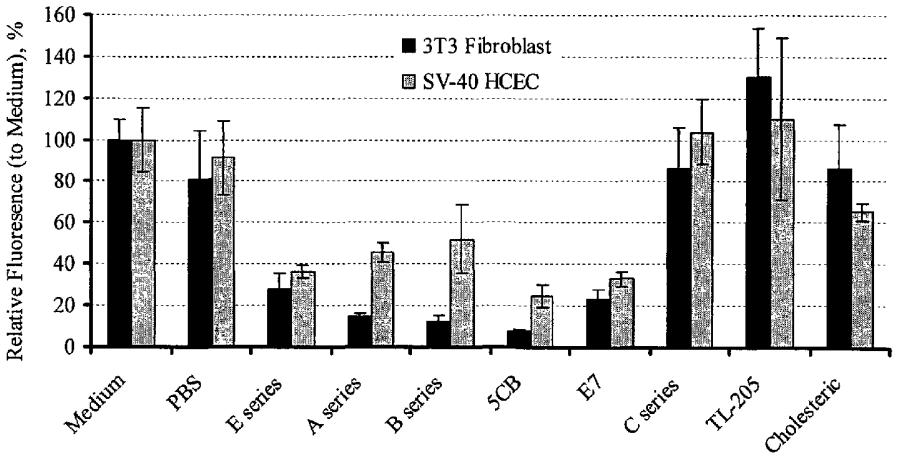
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— *with international search report*

[Continued on next page]

(54) Title: LIQUID CRYSTALS WITH REDUCED TOXICITY AND APPLICATIONS THEREOF



(57) Abstract: Liquid crystal compositions that exhibit little or no toxicity with respect to cells include liquid crystals with chemical functional groups such as fluorine atoms, fluorophenyl groups, or difluorophenyl groups. Liquid crystals with little or no toxicity to cell lines may be added to cell culture media or added to components used in cell culture media. Cells may be grown in cell culture media that includes liquid crystals that exhibit little or no toxicity to cells.

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International application No.
PCT/US04/23048

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : C12N 5/00; C09K 19/52, 19/06, 19/30; C07D 311/24
US CL : 435/404; 252/299.01, 299.6, 299.63; 549/402
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 435/404; 252/299.01, 299.6, 299.63; 549/402

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,686,018 A (DEMUS et al) 11 November 1997 (11.11.1997) see Table 2, first entry.	1-6
X	COX, S.G. Disodium cromoglycate (FPL 670) ("Intal"*). Specific inhibitor or reaginic antibody-antigen mechanisms. Nature. 1967, Vol. 216, No. 5122, pages 1328-1329, see page 1328, right column.	57, 58, 60-64

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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Continuation of B. FIELDS SEARCHED Item 3:
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STN: REGISTRY, CAPLUS
search terms: liquid crystal, cell culture, media, virus, cromoglycate