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(54) Title: CELL LYSIS COMPOSITIONS, METHODS OF USE, APPARATUS, AND KIT

(57) Abstract: Cell lysis compositions, methods for extracting and isolating proteins and peptides from a host cells using the compositions, kits and apparatus for extracting and isolating protein and peptide molecules from host cells and for detecting for the presence of a protein or peptide. The composition allows for the extraction and isolation of proteins and peptides from host cells without the need for mechanical disruption and with or without isolation of the cells from cell medium. The composition includes at least one surfactant having a hydrophobic-lipophilic balance value in the range from about 11 to about 16; and at least one cell membrane altering compound.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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US CL : 536/22.1, 435/7.3, 435/69/6

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. : 536/22.1, 435/7.3, 435/69/6

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
BIOSIS, CABA, EMBASE, CAPLUS, LIFESCI, MEDLINE, SCISEARCH, JAPIO, USPATFUL, EUROPATFUL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,593,866 A (HANCOCK et al) 14 January 1997 (14.01.1997), columns 15 and 16.	1-121
Y	HANCOCK, R.E.W., Ann. Rev. Microbiol., 1984, Vol.38, pages 237-264. See the entire document.	1-121
A	US 5,489,676 A (ELSBACH et al.) 06 February 1996 (6.02.1996). See the entire document.	1-121
Y	US 5,760,189 A (VICIK et al.) 02 JUNE 1998, see the entire document.	30-63
Y	BERG et al, Can J Microbiol., March 1975, vol 21, no. 3, pages 386-91. See the Abstract.	1-29
Y	LIN et al, Biophysical Journal, April 2000, Vol. 78, pages 1714-1724	1-29

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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