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(21) International Application Number: PCT/EP99/05587 (22) International Filing Date: 3 August 1999 (03.08.99) (30) Priority Data: 9817052.5 5 August 1998 (05.08.98) GB (71) Applicant (for all designated States except US): SMITHK- LINE BEECHAM BIOLOGICALS S.A. [BE/BE]; Rue de l'Institut 89, B-1330 Rixensart (BE). (72) Inventors; and (75) Inventors/Applicants (for US only): FRIEDE, Martin [GB/BE]; SmithKline Beecham Biologicals S.A., Rue de l'Institut 89, B-1330 Rixensart (BE). GARCON, Nathalie [FR/BE]; SmithKline Beecham Biologicals S.A., Rue de l'Institut 89, B-1330 Rixensart (BE). (74) Agent: DALTON, Marcus, Jonathan, William; SmithKline Beecham, Corporate Intellectual Property, Two New Hori- zons Court, Brentford, Middlesex TW8 9EP (GB).	(81) Designated States: AU, CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> (88) Date of publication of the international search report: 2 June 2000 (02.06.00)	
(54) Title: VACCINE COMPRISING AN ISCOM CONSISTING OF STEROL AND SAPONIN WHICH IS FREE OF ADDITIONAL DETERGENT (57) Abstract The present invention provides an improved adjuvant formulation and a process for producing said adjuvant. The adjuvant comprises an ISCOM structure comprising a saponin, said ISCOM structure being devoid of additional detergent.		

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 99/05587

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K39/39

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)

IPC 7 A61K C07H

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 practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 96 11711 A (ISCOTEC AB ; COX JOHN COOPER (AU); COULTER ALAN ROBERT (AU); MOREIN) 25 April 1996 (1996-04-25) cited in the application page 1, line 1 -page 5, line 21 examples 1-3	1-9
Y	---	10
X	US 5 679 354 A (DALSGAARD KRISTIAN ET AL) 21 October 1997 (1997-10-21) column 4, line 5-67	1-9
Y	---	10
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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X	KERSTEN G F ET AL: "On the structure of immune-stimulating saponin-lipid complexes iscoms)." BIOCHIMICA ET BIOPHYSICA ACTA, (1991 FEB 25) 1062 (2) 165-71. , XP002128948 abstract "materials and methods" at page 166	1-9
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X	SJOLANDER, ANDERS ET AL: "Uptake and adjuvant activity of orally delivered saponin and ISCOM vaccines" ADV. DRUG DELIVERY REV. (1998), 34(2,3), 321-338 , XP002128949 point 4 starting at page 325	1-9
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X	BARR I G ET AL: "ISCOMs (immunostimulating complexes): the first decade." IMMUNOLOGY AND CELL BIOLOGY, (1996 FEB) 74 (1) 8-25. REF: 152 , XP002128950 page 13, column 2, paragraph 2 -page 14, column 1, paragraph 2	1-9
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Information on patent family members

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