



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>G01N 33/84, 33/68, 33/48 // C07K 14/475, G01N 24/08</b>		A3	(11) International Publication Number: <b>WO 99/30165</b>  (43) International Publication Date: 17 June 1999 (17.06.99)
<p>(21) International Application Number: PCT/US98/26440</p> <p>(22) International Filing Date: 11 December 1998 (11.12.98)</p> <p>(30) Priority Data:            08/989,454 12 December 1997 (12.12.97) US            09/092,797 5 June 1998 (05.06.98) US         </p> <p>(71) Applicant: VERTEX PHARMACEUTICALS INCORPORATED [US/US]; 130 Waverly Street, Cambridge, MA 02139-4242 (US).</p> <p>(72) Inventor: LEPRE, Christopher, A.; 910 Governor Winthrop Drive, Somerville, MA 02145 (US).</p> <p>(74) Agents: HALEY, James, F., Jr.; Fish &amp; Neave, 1251 Avenue of the Americas, New York, NY 10020 (US) et al.</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b>  <i>With international search report.</i></p> <p>(88) Date of publication of the international search report: 10 September 1999 (10.09.99)</p>	
<p>(54) Title: PROCESSES FOR IDENTIFYING A SOLVENT CONDITION SUITABLE FOR DETERMINING A BIOPHYSICAL PROPERTY OF A PROTEIN</p> <p>(57) Abstract</p> <p>The present invention provides processes for identifying a buffer condition suitable for determining a biophysical property of a protein. The processes of this invention utilize vapor diffusion means to alter buffer conditions, thus minimizing the volume of test samples and thereby conserving protein material. The processes of this invention are particularly useful to determine a buffer condition suitable for performing NMR studies on a protein.</p>			

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# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/US 98/26440

## A. CLASSIFICATION OF SUBJECT MATTER

G 01 N 33/84, G 01 N 33/68, G 01 N 33/48, //C 07 K 14/475,  
G 01 N 24/08

According to International Patent Classification (IPC) or to both national classification and IPC

<sup>6</sup>

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G 01 N, C 07 K, C 30 B

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.
A	US 4886646 A (CARTER et al.) 12 December 1989 (12.12.89), abstract (cited in the application). --	1, 6
A	US 5221410 A (KUSHNER et al.) 22 June 1993 (22.06.93), abstract, claims (cited in the application). --	1
A	US 5096676 A (MCPHERSON et al.) 17 March 1992 (17.03.92), abstract (cited in the application). --	1
A	US 5270452 A	

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

25 March 1999

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# INTERNATIONAL SEARCH REPORT

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International Application No

PCT/US 98/26440

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	(LIM et al.) 14 December 1993 (14.12.93), claims. -----	

**ANHANG**  
zum internationalen Recherchenbericht über die internationale Patentanmeldung Nr.

**ANNEX**  
to the International Search Report to the International Patent Application No.

**ANNEXE**  
au rapport de recherche international relatif à la demande de brevet international n°

PCT/US 98/26440 SAE 218042

In diesem Anhang sind die Mitglieder der Patentfamilien der im obengenannten internationalen Recherchenbericht angeführten Patentdokumente angegeben. Diese Angaben dienen nur zur Orientierung und erfolgen ohne Gewähr.

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Im Recherchenbericht angeführtes Patentdokument Patent document cited in search report Document de brevet cité dans le rapport de recherche	Datum der Veröffentlichung Publication date Date de publication	Mitglied(er) der Patentfamilie Patent family member(s) Membre(s) de la famille de brevets	Datum der Veröffentlichung Publication date Date de publication
US A 4886646	12-12-89	keine - none - rien	
US A 5221410	22-06-93	AU A1 27644/92 EP A1 553530 EP A1 607264 JP T2 7500806 MX A1 9205729 WO A1 9307311	03-05-93 04-06-93 27-07-94 16-01-95 14-06-93 15-04-93
US A 5096676	17-03-92	keine - none - rien	
US A 5270452	14-12-93	keine - none - rien	