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[Continued on next page]

(54) Title: A YEAST EXTRACT CONTAINING  $\gamma$ -Glu-X OR  $\gamma$ -Glu-X-Gly AND A METHOD FOR PRODUCING THE SAME

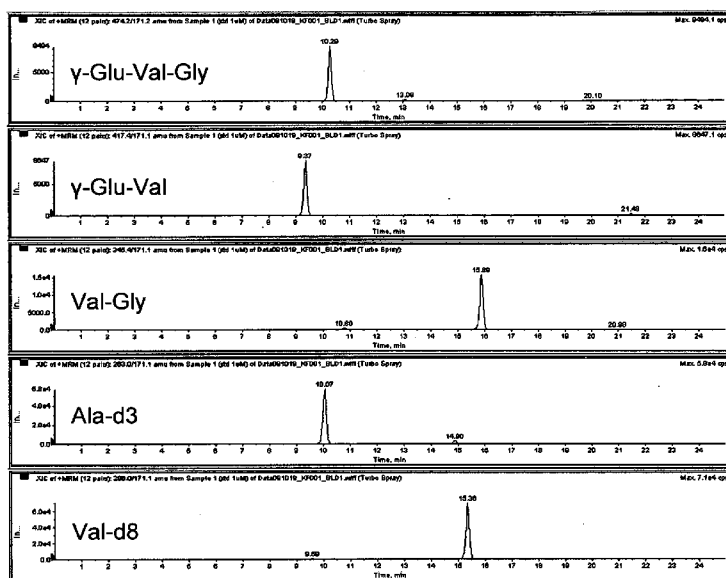


Fig. 1

(57) Abstract: A yeast extract containing a peptide, such as gamma-Glu-X and gamma-Glu-X-Gly, wherein X can represent an amino acid or an amino acid derivative other than Cys and derivatives thereof, is prepared by culturing a yeast in a medium containing a peptide such as gamma-Glu-X, gamma-Glu-X-Gly and X-Gly, and preparing a yeast extract from the obtained cells.



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A. CLASSIFICATION OF SUBJECT MATTER  
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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)

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## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2009/110624 A1 (AJINOMOTO KK [JP]; NISHIUCHI HIROAKI [JP]; SUEHIRO MARIKO [JP]) 11 September 2009 (2009-09-11) pages 2,4	1-21
Y	WO 2007/055393 A1 (AJINOMOTO KK [JP]; OHSU TAKEAKI [JP]; TAKESHITA SEN [JP]; ETO YUZURU []) 18 May 2007 (2007-05-18) page 5; figure 4	1-5
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 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents :

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 "E" earlier document but published on or after the international filing date  
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
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 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  
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## INTERNATIONAL SEARCH REPORT

International application No  
PCT/JP2011/059480

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DUNKEL A ET AL: "Molecular and sensory characterization of gamma-glutamyl peptides as key contributors to the kokumi taste of edible beans ( <i>Phaseolus vulgaris</i> L.)", JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, AMERICAN CHEMICAL SOCIETY, US, vol. 55, 8 August 2007 (2007-08-08), pages 6712-6719, XP002557050, ISSN: 0021-8561, DOI: 10.1021/JF071276U [retrieved on 2007-07-07] abstract -----	1-5
Y	PAYNE: "gamma-Glutamyltransferase is not involved in the bulk uptake of amino acids, peptides or gamma-glutamyl-amino acids in yeast ( <i>Saccharomyces cerevisiae</i> ).", BIOCHEMICAL JOURNAL, vol. 218, no. 1, 1 February 1984 (1984-02-01), pages 147-155, XP55011640, ISSN: 0264-6021 page 152; figure 4 -----	6-16
Y	A. BOURBOULOUX ET AL: "Hgt1p, a High Affinity Glutathione Transporter from the Yeast <i>Saccharomyces cerevisiae</i> ", JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 275, no. 18, 28 April 2000 (2000-04-28), pages 13259-13265, XP55011717, ISSN: 0021-9258, DOI: 10.1074/jbc.275.18.13259 abstract -----	11
Y	D. GANGULI ET AL: "The Alternative Pathway of Glutathione Degradation Is Mediated by a Novel Protein Complex Involving Three New Genes in <i>Saccharomyces cerevisiae</i> ", GENETICS, vol. 175, no. 3, 1 January 2006 (2006-01-01), pages 1137-1151, XP55011718, ISSN: 0016-6731, DOI: 10.1534/genetics.106.066944 page 1144 - page 1145 ----- -/--	12

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/JP2011/059480

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>MEHDI ET AL: "gamma-Glutamyl transpeptidase in the yeast <i>Saccharomyces cerevisiae</i> and its role in the vacuolar transport and metabolism of glutathione.", BIOCHEMICAL JOURNAL, vol. 359, no. 3, 1 November 2001 (2001-11-01), pages 631-637, XP55011740, ISSN: 0264-6021 abstract page 631</p>	17-21
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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2011/059480

## Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.c of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
  - a. (means)
    - on paper
    - in electronic form
  - b. (time)
    - in the international application as filed
    - together with the international application in electronic form
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2.  In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/JP2011/059480

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