

1.背景資訊

- 針對美國瘦肉精豬肉是否進口的問題，準農委會主委曹啟鴻日前公開發言表示「哪有能耐不開放」，讓外界開始揣測新政府已定調開放。

【沃草／瘦肉精「萊克多巴胺」恐危害腦神經 醫師呼籲徹底評估風險 2016年05月04日訊】

- 蔡政府宣布含萊克多巴胺（瘦肉精）的美豬將在明年元旦開放進口，引發正反兩方論戰。

【蘋果日報 2020年10月10日訊】



2.研究問題-1

- 什麼是萊克多巴胺? 從新聞與報章雜誌上的報導來看，似乎是對人體有害的?
- Google了一下，發現維基百科上的說明提到，在容許殘留量下合法使用，不會對人類造成中毒或短期危害。
- 但網路資訊不見得正確，所以還是需要找相關研究，以便進一步的了解這個問題。

萊克多巴胺

萊克多巴胺是一種β-刺激劑藥物，是瘦肉精的一種，可以被用來作為動物飼料添加物，用以助長豬、牛、火雞生出肌肉，減少體脂肪。其肉品殘留毒性遠低於具有相同功能的其他瘦肉精添加物，在由美國制定的容許殘留量下合法使用，將不會對人類造成中毒或短期危害。
[維基百科](#)

分子式：C₁₈H₂₃NO₃



2.研究問題-2

1. 萊克多巴胺是什麼？對人體有什麼危害？
2. 有沒有容許的殘留量(maximum residue)，有的話，是多少呢？
3. 目前有哪些爭議？
4. 其他國家/地區對萊克多巴胺看法？
5. 如何持續關注此議題？



3.如何開始進行研究

- 選定好相關的關鍵字，我們可以透過google知道了「萊克多巴胺」的英文為Ractopamine, 同時我們也透過google知道了Ractopamine其實為藥品名，若是用在不同的動物上，還分別會有Paylean(培林, 用在豬上)、Optaflexx(歐多福斯, 用在牛身上的)以及Topmax(湯瑪士, 用在火雞上)等不同的商品名稱。
- 由上述可以列出以下為我們在搜尋時，可以使用的關鍵字：Ractopamine, Paylean, Optaflexx, Topmax
- 接下來要選定搜尋的資料庫

4. 首先，建議從**EDS**探索服務開始搜尋

原因：

- EDS 資源探索服務內建龐大的索引知識庫，如同 Google Scholar，可以大範圍的搜尋中外文學術文章與報告，比起搜尋單一資料庫或出版社的網站更有效率
- 關鍵字使用：萊克多巴胺

5. 搜尋結果以相關性排序

14. 美牛瘦肉精安全議題，您的看法



By: 編輯部; 消基會. In: 消費者報導. 372. 048-049.; 財團法人中華民國消費者文教基金會: 台灣, 資料庫: HyRead Journal

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15. 當「賽德克巴萊」遇見「萊克多巴胺」



By: 林冠宏. In: 北投社雜誌季刊. 63. 007-007.; 臺北市八頭里仁協會: 台灣 Language: 中文繁體, 資料庫: HyRead Journal

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16. 萊克多巴胺對心血管疾病大鼠之急性循環生理研究 ; Acute hemodynamic changes in cardiovascular disease rat models exposed to Ractopamine.



By: 蔡佩靜; Tsai, Pei-Jing. 01/01/2014 Language: zh-TW, 資料庫: BASE

主題: 萊克多巴胺; 心血管毒性; 動脈硬化; 高血壓; 血行動力學

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17. 萊克多巴胺作用於小鼠之心毒性 ; The Cardiac Toxicity of Ractopamine in Mice



By: 郭春儒; Kuo, Chun-Yi. 11/26/2013 Language: Chi; en_US, 資料庫: BASE

主題: 萊克多巴胺; 心毒性; 細胞凋亡; 氧化壓力; Ractopamine; cardiac toxicity; apoptosis; oxidative stress

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18. 論我國針對含萊克多巴胺畜產品之進口管制與WTO規範下SPS協定之合致性 ; The Legal Analysis of Taiwan's Meat Regulation regarding Ractopamine under SPS Agreement of WTO



By: 田起安; 田起安. 01/01/2013 Language: en_US, 資料庫: BASE

主題: 萊克多巴胺; SPS協定; Codex委員會; Ractopamine; SPS Agreement; Codex Alimentarius Commission; 14

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19. 我國乙型受體素於畜產品禁用措施之研究－從WTO下相關協定分析



By: 王堂凱; WANG, TANG-KAI. 東吳大學, 2014; 法律學系, 2014, 資料庫: Networked Digital Library of Theses & Dissertations

主題: 食品安全檢驗與動植物防疫檢疫措施協定; 萊克多巴胺; 瘦肉精; 世界貿易組織; 乙型受體素; SPS Agreement; Ractopamine; WTO; β -agonists

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20. 食品法典委員會標準制定之研究－以萊克多巴胺最大殘留量之標準制定為中心 ; The Standard-Setting of Codex Alimentarius Commission: A Critical Study on the Maximum Residue Limits for Ractopamine



By: 嚴昱如; Yen, Yu-Ju; 倪貴榮; Ni, Kuei-Jung. 01/01/2012 Language: zh_TW, 資料庫: BASE

主題: 食品法典委員會; 食品安全; 風險分析; 萊克多巴胺; Codex Alimentarius Commission; food safety; risk analysis; Ractopamine

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搜尋結果：回答研究問題1-2

- 中文的關鍵字，搜尋到的主要是中文文章，其中的第五篇：食品法典委員會標準制定之研究－以萊克多巴胺最大殘留量之標準制定為中心，似乎與我們關注的主題接近，透過該文章，可以了解：
 - － 萊克多巴胺為 β 受體促進劑（俗稱瘦肉精）的其中一種，屬於類交感神經興奮劑，由美國禮來藥廠所製造，原本研發做為治療人類氣喘疾病
 - － 美國食品和藥物管理局（U.S. Food and Drug Administration，簡稱FDA）首先在1999年允許使用於豬飼料，2003年美國准許使用於牛隻飼料中，2008年准許使用於火雞飼料。249在美國紅肉產業中，透過萊克多巴胺等 β 受體促進劑增加了產量的效益，因為使用了 β 受體促進劑使每頭提升五美元的利潤，目前美國百分之六十至百分之八十的豬隻皆使用萊克多巴胺。
 - － 萊克多巴胺的使用是否安全具有爭議性，在人體食用體內殘留瘦肉精的動物後，可能會造成頭暈、噁心、心悸或心臟驟停、昏迷死亡的狀況，對於有心血管疾病、糖尿病、甲狀腺機能亢進等患者產生危害
 - － 世界貿易組織將食品法典委員會(Codex Alimentarius Commission)所制定之國際標準，作為各會員國防檢疫措施之基礎
 - － 最大殘留量(Maximum Residue Limits, MRL)係指由CAC提出對食品內或表面法定允許或認為可以接受最高濃度，並以根據鮮重mg/kg或 $\mu\text{g}/\text{kg}$ 來表示。其計算方式係根據被認為對人體健康無任何毒物危害的殘留方式和殘留量，並透過ADI來表示或是根據附加安全係數來計算臨時ADI來確定。當確立MRL時，還須考慮植物類食品或在環境中殘留之問題
 - － 每日攝取容許量：0-1 $\mu\text{g}/\text{kg}$ bw (62nd JECFA, 2004)



嚴昱如(2013)。食品法典委員會標準制定之研究－以萊克多巴胺最大殘留量之標準制定為中心(碩士)。交通大學科技法律研究所學位論文，

接著，改以英文關鍵字搜尋外文文獻

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1. **Ractopamine hydrochloride on performance and carcass traits of confined Nellores cattle.**
Cloridrato de ractopamina sobre o desempenho e características de carcaça de bovinos nelores confinados. By: Kill, João Luis; Haddade, Ismail Ramalho; dos Santos Júnior, Iron Cardoso; Haese, Douglas; Neto, Alberto Chambela; Paulino, Pedro Veiga Rodrigues; Possatti, Carolina D'ávila. *Ciência Rural*. out2015, Vol. 45 Issue 10, p1830-1834. 5p. DOI: 10.1590/0103-8478cr20141145.
主題: RACTOPAMINE (Drug); CATTLE -- Carcasses; WEIGHT gain; FEED utilization efficiency; FOOD additives; ERECTOR spinae muscles; Chemical (except agricultural) and allied product merchant wholesalers
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2. **Identification of ractopamine glucuronides and determination of bioactive ractopamine residues and its metabolites in food animal urine by ELISA, LC-MS/MS and GC-MS.**
Additives & Contaminants. Part A: Chemistry, Analysis, Control, Exposure & Risk Assessment. Jan2014, Vol. 31 Issue 1, p29-38. 10p. DOI: 10.1080/00036811307622222
主題: RACTOPAMINE (Drug); BEEF; CLENBUTEROL; GRAPHENE oxide; HOLLOW fibers; HIGH performance liquid chromatography; Meat Processed from Carcasses; Red meat and meat product merchant wholesalers; Animal (except Poultry) Slaughtering; Rendering and meat processing from carcasses

3. **Identification of ractopamine residues in Beef by Graphene Oxide Hollow Fiber Solid-Phase Microextraction and High-Performance Liquid Chromatography with Electrodeless Chemiluminescence Detection.**
Journal of Food Composition & Analysis. 2016, Vol. 49 Issue 8, p1163-1175. 13p. 3 Black and White Photographs, 3 Charts, 5 Graphs. DOI: 10.1080/00032719.2015.1094662.
主題: SOLID phase extraction; RACTOPAMINE (Drug); BEEF; CLENBUTEROL; GRAPHENE oxide; HOLLOW fibers; HIGH performance liquid chromatography; Meat Processed from Carcasses; Red meat and meat product merchant wholesalers; Animal (except Poultry) Slaughtering; Rendering and meat processing from carcasses

4. **Development of a time-resolved chemiluminescence strategy for the multiplexed detection of ractopamine and clenbuterol in meat.**
Journal of Food Composition & Analysis. 2016, Vol. 49 Issue 8, p1163-1175. 13p. 3 Black and White Photographs, 3 Charts, 5 Graphs. DOI: 10.1080/00032719.2015.1094662.
主題: SOLID phase extraction; RACTOPAMINE (Drug); BEEF; CLENBUTEROL; GRAPHENE oxide; HOLLOW fibers; HIGH performance liquid chromatography; Meat Processed from Carcasses; Red meat and meat product merchant wholesalers; Animal (except Poultry) Slaughtering; Rendering and meat processing from carcasses

5. **A QuEChERS/LC-MS method for the analysis of ractopamine in pork.**
By: Valesse, Andressa C.; Oliveira, Gabriela A.P.; Kleemann, Cristian R.; Molognoni, Luciano; Daguer, Heitor. *Journal of Food Composition & Analysis*. Apr2016, Vol. 47, p38-44. 7p. DOI: 10.1016/j.jfca.2016.01.002.
主題: LIQUID chromatography-mass spectrometry; RACTOPAMINE (Drug); PORK -- Quality; ACETONITRILE; FOOD -- Safety measures

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... Frank R. PLoS ONE. Dec2014, Vol. 9 Issue 12, p1-28. 28p. DOI: 10.1371/journal.pone.0115904. 資料庫: Food Science Source
... cases; FEEDLOTS; SHEAR strength; MEAT -- Quality; ERECTOR spinae muscles; LIVESTOCK; Sheep Farming; Beef cattle ranching and farming,
... merchant wholesalers; Livestock Merchant Wholesalers

7. **...的影響 / Effect of Soy Sauce on the Heat Stability of Ractopamine in Animal Muscle**
... g-Kun Hsieh; 魏瓊巍 / Hen-Wei Wei; 藍珮瑜 / Pei-Yu Lan; 周濟眾 / Chi-Chung Chou. In: 臺灣獸醫學雜誌 / Taiwan Veterinary Journal. Vol. 38 Issue 2, p91-99.
9 p. Language: 繁體中文; 英文, 資料庫: Airtit Library eBooks & Journals - 華藝線上圖書館
主題: ractopamine; 熱穩定性; 降解率; 醬油; heat stability; soy sauce; thermo-degradation
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8. **Ractopamine hydrochloride inclusion on heifer feedlot performance, meat yield, and tenderness of**
... Hill, G. M., Kerth, C. R., Pence, M., Pringle, T. D.. *Meat Science*. Vol. 96 (1), 2014. 73-81., 資料庫: FSTA - Food Science and Technology Abstracts
... CARCASSES; DRUGS; FATS ANIMAL; INTRAMUSCULAR FAT; RACTOPAMINE; SEX; TENDERNESS; WEIGHT; WT.; Meat, poultry and game
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9. **Sex-specific effect of ractopamine on quality attributes of pork frankfurters.**
By: Costa-Lima, B. R. C., Canto, A. C. V. C. S., Suman, S. P., Conte-Junior, C. A., Silveira, E. T. F., Silva, T. J. P.. *Meat Science*. Vol. 96 (2, Part A), 2014. 799-805., 資料庫: FSTA - Food Science and
... RS; PHYSICAL PROPERTIES; PHYSICOCHEMICAL PROPERTIES; PORK SAUSAGES; RACTOPAMINE; SAUSAGES; SENSORY PROPERTIES; Meat,
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10. **...orbent and high-performance liquid chromatography-ultraviolet detection for rapid analysis of**
ractopamine in porcine muscle and urine samples.
By: Wei Du, Gang Zhao, Qiang Fu, Min Sun, Huiyan Zhou, Chun Chang. *Food Chemistry*. Vol. 145, 2014. 789-795., 資料庫: FSTA - Food Science and Technology Abstracts
主題: ANALYTICAL TECHNIQUES; DRUGS; HIGH PERFORMANCE LIQUID CHROMATOGRAPHY; HPLC; PORK; RACTOPAMINE; SOLID PHASE MICROEXTRACTION; ULTRAVIOLET RADIATION;
UV; Meat, poultry and game
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11. **Ractopamine at an ordered mesoporous carbon modified electrode.**
Ding, Yi Chen, Junjie Fei. *Food Chemistry*. Vol. 145, 2014. 619-624., 資料庫: FSTA - Food Science and Technology Abstracts
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By: Valese, Andressa C.; Oliveira, Gabriela A. B.; Kleemann, Cristian B.; Molinari, Luiana; Deque, Helton. *Journal of Food Composition & Analysis*. Apr2016, Vol. 47, p38-44. 7p. DOI: 10.1016/j.jfca.2016.01.002.
主題: LIQUID chromatography-r
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6. Label free electrochemical apta
By: Yang, Fei; Wang, Peilong; V
10.1016/j.bios.2015.09.050.
主題: ELECTROCHEMICAL ser
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7. **Ractopamine** Residues in Bee
By: Xiaowei Liang; Kai Zhang; J
主題: **RACTOPAMINE (Drug)**; F
including feedlots; Beef Cattle F
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8. A novel voltammetric sensor b
ractopamine
By Baytak, Aysegul Kutluay; Te
10.1016/j.msec.2015.10.030, 資
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9. An on-site immunosensor for r
nanoparticles for enrichment, an
By: Chen, Si; Zhang, Jiabin; Gan, Ning; Hu, Futao; Li, Tianhua; Cao, Yuting; Pan, Daodong. *Microchimica Acta*. Feb2015, Vol. 182 Issue 3/4, p815-822. 8p. DOI: 10.1007/s00604-014-1392-5.
主題: **RACTOPAMINE (Drug)**; MAGNETIC nanoparticles; CYCLODEXTRINS; PROBES (Electronic instruments); IMMUNOGOLD labeling; IMMUNOASSAY
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- The Ractopamine Dispute in the Codex Alimentarius Commission.**
By: Burkard, Michael. European Journal of Risk Regulation, 2012, Issue 4, p610-613, 4p, 資料庫: OmniFile Full Text Select (H.W. Wilson)
主題: Ractopamine (Drug); Standardization; Feed additives; Joint FAO/WHO Codex Alimentarius Commission; European Union; Other Animal Food Manufacturing; Agricultural feed merchant wholesalers; Farm Supplies Merchant Wholesalers
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- Testing the Limits of Global Food Governance: The Case of Ractopamine.**
By: Alemanno, Alberto; Capodice, Giuseppe. European Journal of Risk Regulation, 2012, Vol. 3 Issue 3, p400-407, 8p, 資料庫: OmniFile Full Text Select (H.W. Wilson)
主題: Ractopamine (Drug); Food additives; Meat industry; Animal health; Public health; Chemical (except agricultural) and allied product merchant wholesalers; Rendering and meat processing from carcasses; Red meat and meat product merchant wholesalers; Rendering and Meat Byproduct Processing; Meat Processed from Carcasses; Animal (except Poultry) Slaughtering; Meat Markets; Meat and Meat Product Merchant Wholesalers; Health and Welfare Funds; Farm Supplies Merchant Wholesalers; Nursery, Garden Center, and Farm Supply Stores; Butter, cheese, and dry and condensed dairy product manufacturing; Agricultural feed merchant wholesalers; Feeds - Government policy
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- Beta agonists in livestock feed: Status, health concerns, and international trade.**
By: Centner, T. J.; Alvey, J. C.; Stelzleni, A. M. Journal of Animal Science. Sep2014, Vol. 92 Issue 9, p4234-4240. 7p. DOI: 10.2527/jas.2014-7932.
主題: ANIMAL feeding; RESEARCH; RACTOPAMINE (Drug); ADRENERGIC beta agonists in animal nutrition; MEAT; STANDARDS; FEEDS - Composition; WORLD Trade Organization; JOINT FAO/WHO Codex Alimentarius Commission; Rendering and Meat Byproduct Processing; Red meat and meat product merchant wholesalers; Meat and Meat Product Merchant Wholesalers; Meat Markets
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By Cheng, Guyue; Li, Feng; Peng, Dapeng; Huang, Lingli; Hao, Haihong; Liu, Zhenli; Wang, Yulian; Yuan, Zonghui. In *Analytical Biochemistry*. 15 August 2014 459:18-23 Language: English. DOI: 10.1016/j.ab.2014.05.005, 資料庫: ScienceDirect
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der IET/822/2012 and under the Renewable Energy Directive. Unless the EU can prove that Argentina's biodiesels are, in fact, not "like" EU biodiesels, they may not be treated less favourably on the basis of the environmental effects connected to their production processes. Consequently, Article III:4 of the GATT will provide a powerful shield to prevent Spain from discriminating against Argentina's (or any other imported) biodiesel in favour of the EU production of the "like" biofuel.

V. Conclusions

The concerns raised by Argentina with regard to Spain's Ministerial Order IET/822/2012 highlight the increasing frictions between multilateral trade and environmental measures. When such frictions occur, the WTO is the appropriate *forum* for tackling these trade concerns.

Argentina's concerns focus on the allegedly discriminatory and trade-restrictive nature of the

nature, scientific restrict happens a has left out the arguments on the alleged violation of certain obligations under the TBT Agreement. These arguments may still be made in the request for the establishment of a panel, if the case is not settled during consultations and Argentina decides to commence panel proceedings.

Environmental protection and the pursuit of sustainable production practices are legitimate and sacrosanct objectives, which are recognised by the WTO and should be pursued through multilateral instruments, but they must not become intentional or unintentional forms of protection or trade distortion and should always be based on the least trade restrictive measures available. Governments and stakeholders must work together to identify these measures, if necessary through flexible and creative policy-making, and ensure that neither the environment nor world trade become victims to their unilateral approaches.

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ABNT (Brazilian National Standards)	參考資料 BURKARD, M. The Ractopamine Dispute in the Codex Alimentarius Commission. <i>European Journal of Risk Regulation</i> . 4, 610-613, Dec. 2012. ISSN: 1867299X.
AMA (American Medical Assoc.)	參考資料清單 Burkard M. The Ractopamine Dispute in the Codex Alimentarius Commission. <i>European Journal Of Risk Regulation</i> [serial online]. December 2012;(4):610-613. Available from: OmniFile Full Text Select (H.W. Wilson), Ipswich, MA. Accessed April 17, 2015.
APA (American Psychological Assoc.)	參考資料 Burkard, M. (2012). The Ractopamine Dispute in the Codex Alimentarius Commission. <i>European Journal Of Risk Regulation</i> , (4), 610-613.

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詳細的記錄

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資料來源: European Journal of Risk Regulation
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The Ractopamine Dispute in the Codex Alimentarius Commission.

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搜尋結果：回答研究問題3

- 最大的爭議是這次食品法典委員會(Codex Alimentarius Commission)所制定萊克多巴胺最大殘留量標準是用投票的方式，而非採用以往的共識決，以美國為主的國家若人數較多，將會主導結果，因此歐盟對此方式表示遺憾
- During this meeting, however, the proponents of ractopamine managed to obtain a thin majority of 69 against 67 votes (7 abstentions) in favour of the adoption of MRLs for ractopamine. In a press statement of July 6, 2012, the EU considered the decision-making process that led to this result as “regrettable”.

關於全球食物的管理



詳細的記錄

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資料來源: European Journal of Risk Regulation
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選擇另一個刊號

Testing the Limits of Global Food Governance: The Case of Ractopamine.

Food

This section aims at updating readers on the latest developments of risk-related aspects of food law at EU level, giving information on legislation and case law on various matters, such as food safety, new diseases, animal health and welfare and food labelling.

Testing the Limits of Global Food Governance: The Case of Ractopamine

Alberto Alemanno and Giuseppe Capodice***

Introduction

Although few consumers outside of the livestock industry have heard about this veterinary drug, ractopamine is set to become not only the source of public concern but also the trigger of another endless transatlantic trade dispute.

After years of scientific and political deadlock¹, the Codex Alimentarius Commission (CAC) narrowly voted, on July 5, 2012 to adopt the first-ever maximum residue levels for ractopamine hydrochloride, a controversial veterinary drug used in animal feed that boosts growth and promotes leanness in pigs and cattle, and, to a limited extent, heavy turkeys.

This decisions is a big win for the United States', Brazil's and Canada's trade interest and a lost combat

ion and Taiwan for having zero tolerance policies for ractopamine residues in meat products, is likely to lead the World Trade Organization to judge against those countries that ban the use of ractopamine. Yet this likely outcome begs the question of whether the weight of an international standard adopted with a one vote difference could realistically be considered tantamount to one adopted under consensus. While there is no doubt that legally speaking these standards are equal², one may wonder – along the lines of the European Commission's statement made in the aftermath of the adoption of the Codex standard – whether “for standards to be universally applicable, they (should) also need to be universally accepted”³. Moreover, what makes the ractopamine case even more complex than previous similar disputes, such as *EC-Hormones*, is the range of public concerns invoked to sustain the legality of the restrictive measures. Not only it is claimed that ractopamine raises human health risks but also animal health and animal welfare considerations are invoked.

* Associate Professor of Law and Jean Monnet Chair in EU Law & Risk Regulation, HEC Paris. E-mail: <Alemanno@hec.fr>.

** Food Policy Advisor - European Livestock and Meat Trading Union (UECBV), Brussels. All views expressed in this article are strictly personal and should not be understood or quoted as being made on behalf of the UECBV.

搜尋結果：回答研究問題4

- 以美國為首的澳洲，紐西蘭，加拿大，日本，墨西哥，巴西都允許使用萊克多巴胺，歐盟，中國，以及台灣則完全禁用，中國的科學家主要憂慮他們食用較多的內臟器官，如肺與肝臟，腎臟等
- Countries around the world are split over whether to allow the use of ractopamine in meat production. While this substance has been authorised as a feed additive in a limited number of countries, such as USA , Australia , Canada , Japan and Mexico for growth promotion of fattening pigs and cattle, the vast majority of jurisdictions, including the EU, mainland China and Taiwan, bans its use on safety grounds
- However, Chinese scientists, who objected to the residue standards, were especially concerned because organ meats such as the lungs, liver, intestines and kidneys are more prevalent in the Chinese diet and thus people who ate them could face higher exposures to the drug.

6. 搜尋結果：回答研究問題5-1

The screenshot shows the EDS search results page. The search query is "RACTOPAMINE AND dispute". The results list includes:

- 1. The Ractopamine Dispute** by Burkard, Michael. E. U. **主題: Ractopamine (Drug) wholesalers; Farm Supply**. PDF全文 (83KB).
- 2. Testing the Limits of Global** by Alemanno, Alberto; C. **主題: Ractopamine (Drug) carcasses; Red meat and Meat Product Merchant dairy product manufacture**. PDF全文 (144KB).
- 3. Beta agonists in livestock feed: Status, health concerns, and international trade.** By: Centner, T. J.; Alvey, J. C.; Stelzleni, A. M. *Journal of Animal Science*. Sep2014, Vol. 92 Issue 9, p4234-4240. 7p. DOI: 10.2527/jas.2014-7932. **主題: ANIMAL feeding; RESEARCH; RACTOPAMINE (Drug); ADRENERGIC beta agonists in animal nutrition; MEAT; STANDARDS; FEEDS -- Composition; WORLD Trade Organization; JOINT FAO/WHO Codex Alimentarius Commission; Rendering and Meat Byproduct Processing; Red meat and meat product merchant wholesalers; Meat and Meat Product Merchant Wholesalers; Meat Markets**. Full Text through LinkSource, Full Text Finder, Check SFX for full text, Request this item through interlibrary loan.
- 4. Anabolics**, 資料庫: Credo Reference Collections. Check SFX for full text, Request this item through interlibrary loan.
- 5. Development of an enzyme-linked-receptor assay based on Syrian hamster β 2-adrenergic receptor for detection of β -agonists** By Cheng, Guyue; Li, Feng; Peng, Dapeng; Huang, Lingli; Hao, Haihong; Liu, Zhenli; Wang, Yulian; Yuan, Zonghui. In *Analytical Biochemistry*. 15 August 2014 459:18-23 Language: English. DOI: 10.1016/j.yabio.2014.07.014

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