2009 DRAFTING REQUEST

Bill

FE Sent For:

Received: 05/28/2009					Received By: smiller												
Wanted: As time permits For: Gary Hebl (608) 266-7678 This file may be shown to any legislator: NO May Contact:					Identical to LRB: By/Representing: Drafter: smiller Addl. Drafters:												
										Subject: State Govt - miscellaneous				Extra Copies:			
										Submit	via email: YES						
										Request	er's email:	Rep.Hebl@	legis.wisco	onsin.gov			
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/1			mduchek 05/29/20	09	mbarman 05/29/2009	mbarman 09/29/2009											

<**END>**



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Requester's email: Rep.Hebl@legis.wisconsin.gov								
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Pre Topic:								
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FE Sent For:

<END>

Miller, Steve

From:

Battiato, Kate

Sent:

Thursday, May 28, 2009 11:33 AM

To:

Miller, Steve

Subject:

State Microbe Fact Sheet

Attachments:

State Microbe Fact Sheet.pdf

Hi Steve,

Attached is the fact sheet explaining the Lactococcus lactis bacteria Rep. Hebl would like to establish as Wisconsin's State Microbe. Thank you for your assistance in routing this drafting request to the right person.

State Microbe Fact Sheet.pdf (...

Kate

Kate Battiato

Office of State Representative Gary Hebl

46th Assembly District

Phone: 266-7678

The State Microbe: Lactococcus lactis

Wisconsin State Symbols

We propose that Wisconsin adopt a microbe as a new state symbol in the company of state animals, the state bird, state flower, state fish and state insect.

The state microbe will be a living symbol of an organism that reflects the culture and heritage of Wisconsin's peoples and yet contributes mightily to the state's economy. Such a microbe is the bacterium, *Lactococcus lactis*.

Background

Bacteria are essential for life on earth, yet due to their small size, they are often underappreciated. While a few bacteria can cause disease, the vast majority are harmless or beneficial to us. Bacteria have immense importance to both basic and applied science. Having a state microbe/bacterium would educate people about the value of microbes to Wisconsin's industries and economy, and bring focus to Wisconsin's preeminence in microbiology research and education.

The proposed bacterium, *Lactococcus lactis*, is intimately involved in production of the foods that make Wisconsin famous: cheese and other fermented dairy products.

Lactococcus lactis

Lactococcus lactis is the primary lactic acid bacterium responsible for the production of Cheddar cheese and Colby cheese, a Wisconsin original. It is also used in production of many other dairy products, including Brie, Camembert, Havarti, Gouda, Edam, Feta, Blue, Chevre, Cheddar, Colby, Monterey Jack, cultured butter, Muenster, Gorgonzola, Stilton, Manchego, cottage cheese, kefir, buttermilk, and sour cream.

Lactococcus species are commonly found on grass and other plant material and in raw milk. They are needed in cheese production for fermentation of milk sugar (lactose) to lactic acid, formation of flavor and aroma compounds, and development of ripened cheese texture. Lactococcus lactis is also the predominant organism in starter cultures that are used nationwide for production of a wide variety of fermented dairy products.

Economic significance

Wisconsin is the leading producer of cheese in the U.S., and *Lactococcus lactis* is one of the most important starter cultures in the cheese industry. The state produces 2.5 billion lbs of cheese annually, contributing a hefty \$18 billion to the state's economy. Additionally, Wisconsin is the leading manufacturer of *L. lactis* starter cultures in the U.S., and these manufacturers are a significant component of the vibrant Wisconsin dairy ingredient industry.

Conclusion

Lactococcus lactis is arguably the most important organism of any type in the State's economy. While we have lost our status as the #1 dairy state, thanks to L. lactis we have maintained our position as #1 cheese-producing state. It is L. lactis that adds tremendous value to our dairy products, doubling or tripling the value of raw milk. It is likely that no other state's economy relies so heavily on such a microbe, so it is fitting that Wisconsin is the first state in the U.S. to name a State Microbe. In this era in which the awareness and appreciation of microorganisms is growing and when L. lactis is fueling the increased consumer demand for cheese, it is appropriate to recognize this bacterium's position and value in the State of Wisconsin by naming it the State Microbe.

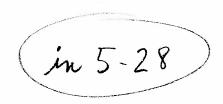


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State of Misconsin 2009 - 2010 LEGISLATURE

LRB-2957/? | SRM:/.....



AN ACT ...; relating to: designating the bacterium Lactococcus lactis as the

Wisconsin state microbe.

Analysis by the Legislative Reference Bureau

Current law designates a variety of state symbols and requires the Wisconsin Blue Book to include information about them. This bill designates the bacterium Lactococcus lactis as the Wisconsin state microbe and requires the Wisconsin Blue Book to include that information.

For further information see the *state* fiscal estimate, which will be printed as an appendix to this bill.

The people of the state of Wisconsin, represented in senate and assembly, do enact as follows:

- 3 Section 1. 1.10(3)(t) of the statutes is created to read:
- 4 1.10 (3) (t) The bacterium Lactococcus lactis is the state microbe.
- 5 **SECTION 2.** 1.10 (4) of the statutes is amended to read:
- 1.10 (4) The Wisconsin Blue Book shall include the information contained in this section concerning the state song, ballad, waltz, dance, beverage, tree, grain,

3

SECTION 2

1 flower, bird, fish, animal, domestic animal, wildlife animal, dog, insect, fossil,

2 mineral, rock, fruit, soil, fruit, and tartan, and microbe.

(END)

. Barman, Mike

From: Battiato, Kate

Sent: Tuesday, September 29, 2009 2:09 PM

To: LRB.Legal

Subject: Draft Review: LRB 09-2957/1 Topic: State Symbol: Lactococcus lactis as state microbe

Please Jacket LRB 09-2957/1 for the ASSEMBLY.