

³⁵ 5M Enterprises Fit 2006 (2012) No part of this site may to perioduced without permission

effect, which included, among others, rosemary, rhubarb, wild garlic, sea buckthorn, rosehip and hops. All these plants have been tested at DMRI for their antibacterial effect on three selected species of pathogenic bacteria, namely *Listeria monocytogenes, Salmonella typhimurium* and *Escherichia coli*.

Sto

Fisl

Cul

£

After this step, 15 potentially interesting plant species remained on the list. Scientists at Aarhus University then, in cooperation with DMRI, further shortened the list, so that it now only contains plants that are reasonably easy to grow or buy in Denmark. For this reason the aromatic bog-myrtle was taken off the list, because although it had a positive effect on *Listeria*, it is difficult to grow commercially.

Handy herbs and berries

The second reduction left eight plant species on the shortlist that are easy to grow, handle and supply and that contain different antibacterial compounds. These eight are Aronia, sage, savory, sloe, lingonberry, wild garlic (ramsons), red currant and horseradish.

"Our next step is the development and testing of processing and application methods for these natural preservatives without destroying their preserving abilities. Should they be chopped, mashed or freeze- or air-dried? Should they be mixed with water or oil? And how should we pasteurise them," asks senior scientist Martin Jensen from Aarhus University. He and his colleague, senior scientist Kai Grevsen, will also be looking at developing the most optimal cultivation and storage methods so that the desired qualities are preserved for as long as possible post-harvest.

DMRI and the participating companies will also be investigating how to achieve a homogenous distribution of the preservative in the meat – should it be mixed in as a powder or sprayed onto the product as a liquid – and how much should be used?

It is also important to ensure that consumers approve of the idea. MAPP – Centre for Research on Customer Relations in the Food Sector at Aarhus University will therefore be looking at the attitude of consumers to the use of herbs and berries for preservation. The Centre will also be studying how consumers react to the new products.

The project that started in 2011 and finishes in 2013 is financed by the Ministry of Food, Agriculture and Fisheries' Green Development and Demonstration Programme (GUDP).

You can read more about the project by clicking here.

February 2012

Learn how to market your products here

the second	

8M Emorphics Ltd., Benchmark House, 6 Smithy Wood Drive, Sheffield, 33e 100, England 5D Enterphics Inc., Suite 4120, CEoT, 141 West Jackson Englaverd, Onloago, 8 - 60604 2000, US/ Contact TheFishSite | Terms and Conditions | Privacy Policy | Disclaimer

2. Consequence (\$3) (1) Well Merch Consequence Alternational Addingue Figure 4 (1)