

## **ANNEX B**

### **Laminarin**

#### **B.7 Residue data**

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The formulation Phyliaq SL (containing 37 g laminarin/l) is applied at the rate of 37 g a.s./l, on cereals (wheat, barley and rice) once a year, at an early growth stage between full tillering and the 1 cm-ear stage (BBCH 29-30) when the ear is not apparent.

The toxicological evaluation showed that Laminarin (B-1,3 linked glucans) is a polysaccharide which is devoid of acute toxicity. No specific effects/target organs were identified from the short-term toxicity studies performed in rat and dog. No developmental toxicity was observed in rats and no ADI has been allocated by the RMS.

In *plants*, laminarin may undergo degradation by polysaccharide and oligosaccharide hydrolases leading to production of glucose. In consequence, there is no possibility to define a residue as such, as it would have to be glucose itself and no plant metabolism studies are necessary to re-enforce that statement.

In *ruminants*, fermentative production of short chain of fatty acids (which are further metabolized before excretion into breath and flatus) is the principal mechanism of intestinal digestion and further livestock metabolism studies are not necessary.

Therefore, no residue of biological significance will occur in plants and in animals and it can be stated that there is no risk for consumers from the use of laminarin as plant protection product.

Conclusion :

As no residues in plants and animals are relevant and as the establishment of an ADI is not necessary, the estimates of the potential and actual exposure through diet and other means do not have to be calculated.

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**B.7.15 References relied on**

Author(s)	Annex Point / Reference number	Year	Title Testing facility, Report n°, GLP or GEP Status published or not	Data Protection Claimed  Y/N	Owner
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PRABHA T.N., NEELWARNE B., THARANATHAN R.N.	IIA, 6.1/03	1998	Carbohydrate changes in ripening <i>Capsicum annuum</i> in relation to textural degradation. Z. Lebensm. Unters Forsch A, 206, N° 2, 121-125 Non-GLP, published	N	-