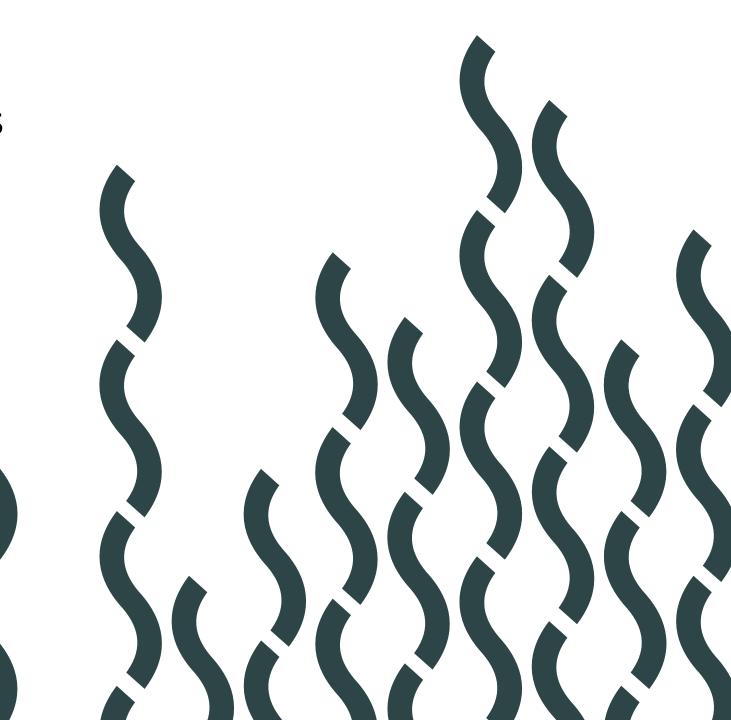
Industry Guidelines by the Norwegian Seaweed Farms

ALGET 2 Quality Algae

November 19th 2020

Maren Sæther

Seaweed Solutions



Seaweed farming in Norway

 Seaweed Solutions AS (SES) was established in 2009, as the first seaweed farming company in Norway

 The first cultivation licenses for seaweed farming were granted in 2014

Growing interest!



Norwegian Seaweed Farms

- The association was established in June 2017, as a formal continuation of the network that was started in 2015
- Currently 10 companies in the association
 Norges Vel by Marit Gjerstad, is the secretariat
- An arena for collaboration and exchange of experience between seaweed farmers
- Cultivation license and farming experience





Industry guidelines for farmed S.latissima and A. esculenta

- Focus on quality assurance was an early topic
- Ensure that only farmed seaweed of high quality was entering the food marked
- Work on establishing industry guidelines was started in 2016, coordinated by Lill-Ann Gundersen from Norges Vel
- First version of the guidelines was ready in 2017
- The guidelines have been an important tool for communication with authorities

Versjon 1 Bransjeretningslinjer

Dyrking, høsting og håndtering av sukker- og butare som bruk til næringsmiddel



September 2017 på vegne av Norsk Taredyrkerforening v/Lill-Ann Gundersen Norges Vel

Revision of the guidelines

- Development of the industry in various directions: several ways of processing, new markets etc.
- New knowledge and data on nutritional values etc.
- The association is now working on a revised version of the guidelines, finalized early 2021
- More general descriptions of the production
- More focused on food safety



Challenges and risk components

- Iodine
 - Processing to reduce
 - Blanching is reducing >90%
 - Regulate intake
 - Labelling:
 - lodine content
 - «Seaweed species» naturally contains high level of iodine. Recommended daily intake of iodine is 0,15 mg. A too high intake of iodine over time can have a negative effect on the thyroid gland.



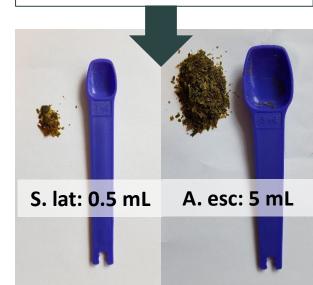
Saccharina latissima:

3000-6000 mg I/kg dw

Alaria esculenta:

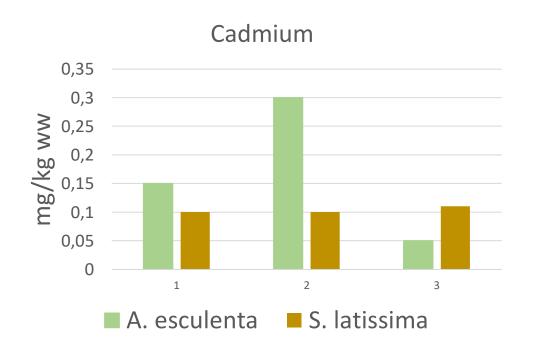
400-900 mg I/kg dw

Amounts needed to obtain the daily recommendation of iodine (0.15 mg)

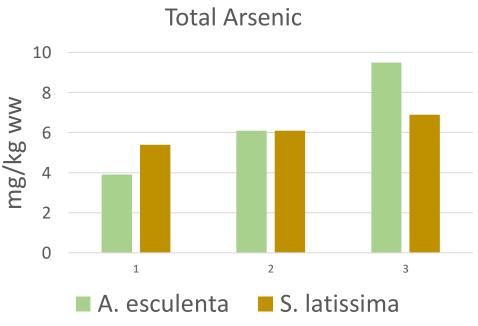


Challenges and risk components

- Inorganic arsenic, cadmium
- Allergens
- Sampling protocols







Thank you for the attention!



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