

MarinTrust Standard V2

By-product Fishery Assessment Lemon sole (*Microstomus kitt*) in Subarea 4 and divisions 3.a and 7.d (North Sea, Skagerrak and Kattegat, eastern English Channel)

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Table 1 Application details and summary of the assessment outcome

| | Species: | Lemon sole, Microstomus kitt | | |
|---|-----------------------------------|---|--|--|
| | Geographical area: | FAO 27 Northern Atlantic | | |
| Fishery Under Assessment | Country of origin of the product: | Denmark | | |
| Assessment | | ICES in Subarea 4 and divisions 3.a and 7.d | | |
| | Stock: | (North Sea, Skagerrak and Kattegat, eastern | | |
| | | English Channel) | | |
| Date | 12 September 2022 | | | |
| Report Code | DNK32 | | | |
| Assessor | Léa Lebechnech | | | |
| Country of origin of the product - PASS | Denmark | | | |
| Country of origin of the product - FAIL | NA | | | |

| Application details and summary of the assessment outcome | | | | | |
|---|---------------|----------------------------|-----------------------|--|--|
| Company Name(s): Marine Ingredients Denmark, FFSkagen, TripleNine | | | | | |
| Country: Denmark | | | | | |
| Email address: sap@maring.org, | | Applicant Cod | Applicant Code: | | |
| mid@maring.org | | | | | |
| Certification Body Details | | | | | |
| Name of Certification Body: | | Global Trust Certification | | | |
| Accessor | Peer Reviewer | Assessment | Initial/Surveillance/ | | |
| Assessor | | Days | Re-approval | | |
| Léa Lebechnech | Matthew Jew | 0,5 days | Re-approval | | |
| Assessment Period To September 2022 | | | | | |

| Scope Details | | | | |
|--|--|--|--|--|
| Main Species | Lemon sole, Microstomus kitt | | | |
| Stock | ICES in Subarea 4 and divisions 3.a and 7.d (North Sea, Skagerrak and Kattegat, eastern English Channel) | | | |
| Fishery Location | Lemon sole in FAO 27 Northeast Atlantic | | | |
| Management Authority (Country/ State) | European Union Common Fisheries Policy | | | |
| Gear Type(s) | Demersal trawl, otter trawl, beam trawl, seine, gillnet | | | |
| Outcome of Assessment | | | | |
| Peer Review Evaluation | Agree with recommendation | | | |
| Recommendation | Approved | | | |

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Table 2. Assessment Determination

Assessment Determination

If any species is categorised as Endangered or Critically Endangered on IUCN's Red List, or if it appears in the CITES appendices, it cannot be approved for use as Marin Trust raw material. Lemon sole (*Microstomus kitt*) in ICES Subarea 4 and divisions 3.a and 7.d (North Sea, Skagerrak and Kattegat, eastern English Channel), is neither listed as Endangered or Critically Endangered on IUCN's Red List ("least concern"), nor listed in CITES appendices; therefore, lemon sole is eligible for approval for use as Marin Trust by-product raw material.

The EU multiannual plan (MAP) for stocks in the North Sea (EU, 2018) and adjacent waters applies to bycatches of this stock. UK and Norway have not requested ICES to provide advice based on the EU MAP. The MAP stipulates that when the F_{MSY} ranges are not available, fishing opportunities should be based on the best available scientific advice. There is a TAC set for it so there is evidence of a species-specific regime in place and due to the fact that Norway and UK do not request advice, a precautionary approach is in place.

As there is a management plan for the stock, it has been assessed under category C. Fisheries removals are considered in the stock assessment and the stock has been above proxy biomass reference points, so clauses C1.1 and C1.2 are met.

Therefore, Lemon sole (*Microstomus kitt*) in ICES Subarea 4 and divisions 3.a and 7.d (North Sea, Skagerrak and Kattegat, eastern English Channel), is **APPROVED** for the production of fishmeal and fish oil under the current MarinTrust v 2.0 by-products standard.

Fishery Assessment Peer Review Comments

The internal peer reviewer agrees with the assessor's determination, who correctly classified lemon sole (*Microstomus kitt*) in FAO subarea 4 and subdivisions 3.a and 7.d under Category C, as reference points are defined to assess status of stock relative to, and there is a specific management regime in place.

Fishery removals are included in the stock assessment and it PASSES Clause C1.1. The stock is considered, in its most recent assessment, to have biomass above the proxy biomass reference point, it PASSES Clause C1.2.

Therefore, lemon sole (*Microstomus kitt*) in FAO subarea 4 and division 3.a and 7.d is **APPROVED**.

Notes for On-site Auditor

N/A



Species Categorisation

NB: If any species is categorised as Endangered or Critically Endangered on the IUCN Red List, or if it appears in CITES Appendix 1, it **cannot** be approved for use as an MarinTrust raw material.

IUCN Red list Category

By-product material from a species listed by IUCN (the International Union for Conservation of Nature) under the Red List for the following categories shall immediately fail the assessment;

- EXTINCT (E) AND EXTINCT IN THE WILD (EW)
- CRITICALLY ENDANGERED (CR) facing an extremely high risk of extinction in the wild.
- ENDANGERED (EN) facing a very high risk of extinction in the wild.

By-product material may be used from the following categories provided that all clauses in the MarinTrust standard are passed.

- VULNERABLE (VU) facing a high risk of extinction in the wild.
- NEAR THREATENED (NT) does not qualify for above now, but is close or is likely to qualify for, a threatened category in the near future.
- LEAST CONCERN (LC) Widespread and abundant.
- DATA DEFICIENT (DD) and NOT EVALUATED (NE)

Table 3 Species Categorisation Table

| Common name | Latin name | Stock | Management | Category | IUCN Red List Category ¹ | CITES Appendix 1 ² |
|-------------|------------------|---|---|----------|--|----------------------------------|
| Lemon sole | Microstomus kitt | ICES Subarea 4 and divisions 3.a and 7.d (North Sea, Skagerrak and Kattegat, eastern English Channel) | European Union Common fisheries policy | С | LC | No |

¹ <u>https://www.iucnredlist.org/</u>

² https://cites.org/eng/app/appendices.php

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CATEGORY C SPECIES

In a by-product assessment, Category C species are those which are subject to a species-specific management regime and are usually targeted species in fisheries for human consumption.

Clause C1 should be completed for each Category C species. If there are no Category C species in the fishery under assessment, this section can be deleted. Where a species fails this Clause, it should be assessed as a Category D species instead.

| | ecies | Name | Lemon | Sole (Micros | stomus kit | t) | | |
|--|---|--|--|---|--|--|--|-----------------------------------|
| 21 | | | tus - Minimum Requ | irements | | | | |
| L | C1.1 | Fishery removals of the species in the fishery under assessment are included in the stock assessment | | | | | | Yes |
| | | | re considered by sci | | | | | |
| C1.2 The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible. | | | | | | | Yes | |
| | | | | | | onsidered by scientific | | |
| | | autionties to | be negligible. | | | | Clause outcome: | PASS |
| ne El nd N ot av CES a lana | dered b U multia orway h vailable, odvises t gement itation r | y scientific auth annual plan (MA nave not reques fishing opportu that when the N of lemon sole ates and could l | AP) for stocks in the ted ICES to provide a unities should be bas ASY approach is appl and witch flounder ead to the overexplo | ble . North Sea (EU, 2 advice based on sed on the best a lied, catches in 2 under a combine | 018) and adja the EU MAP. ⁻ available scien 023 should be ed species TA | cent waters app The MAP stipula tific advice. e no more than C prevents effe | ctive control of the sin | s stock. ranges a gle-speci |
| ound om 1 iscar | dance d three su rding is | ock assessment, ata from one si irveys (IBTS Q1 known to take p | urvey index (IBTS Q [G1022], IBTS Q3 [G blace and discards ha | e as follows: Cor 1 [G1022]), and 2829], BTS Q3 [B ave been quantif | nmercial catcl fixed maturity 82453]) (ICES, | nes (internation v estimates and 2022). | al landings and discarc annual stock weight-a | ls), relati |
| bund rom 1 Discar atest | dance d three su rding is t stock a | ock assessment, ata from one si irveys (IBTS Q1 known to take p | the input data were urvey index (IBTS Q: [G1022], IBTS Q3 [G | e as follows: Cor 1 [G1022]), and 2829], BTS Q3 [B ave been quantif Figure 1 below. | nmercial catcl fixed maturity 82453]) (ICES, fied for 2002– | nes (internation v estimates and 2022). 2021 (rate for 2 | al landings and discarc annual stock weight-a | ls), relativ |
| bund om f iscar atest | dance d three su rding is t stock a ntches | ock assessment, ata from one su urveys (IBTS Q1 known to take p issessment info | the input data were urvey index (IBTS Q [G1022], IBTS Q3 [G place and discards ha | e as follows: Cor 1 [G1022]), and 2829], BTS Q3 [B ave been quantif Figure 1 below. | nmercial catcl fixed maturity 82453]) (ICES, | nes (internation v estimates and 2022). 2021 (rate for 2 x | al landings and discarc annual stock weight-a | ls), relati |
| ound om 1 iscar atest Ca | dance d three su rding is t stock a stoches | ock assessment, ata from one si irveys (IBTS Q1 known to take p issessment info | the input data were urvey index (IBTS Q: [G1022], IBTS Q3 [G blace and discards ha rmation is shown in tem.27.36474.20 00000000000000000000000000000000000 | e as follows: Con 1 [G1022]), and 2829], BTS Q3 [B ave been quantif Figure 1 below. | nmercial catch fixed maturity 32453]) (ICES, fied for 2002– Biomass inde | nes (internation v estimates and 2022). 2021 (rate for 2 x | al landings and discard annual stock weight-a 021 = 19.18%). | 2210526 |



Therefore, fishery removals of the species in the fishery under assessment are included in the stock assessment process, so it PASSES clause C1.1.

C1.2 The species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), OR removals by the fishery under assessment are considered by scientific authorities to be negligible.

The stock size index is above MSY B_{trigger proxy} (/_{trigger}) as it can be seen on the Figure 1 above.

Furthermore, it can be added that fishing pressure on the stock is below the F_{MSY} proxy (Figure 2).

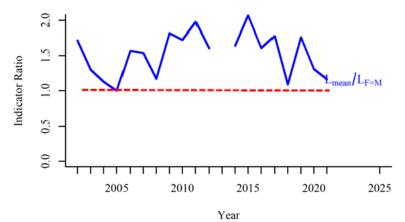


Figure 2 Lemon sole in Subarea 4 and divisions 3.a and 7.d. Indicator ratio $L_{mean}/L_{F=M}$ from the length-based indicator (LBI) method is used for the evaluation of the exploitation status. The exploitation status is below the $F_{MSY proxy}$ when the indicator ratio value is higher than 1 (shown by a dotted red line).

The length-based indicator (LBI) analysis shows that fishing mortality is below likely proxies for MSY reference points (Figure 2). While there is no sign of overexploitation, the stock size is unknown.

Therefore, relative SSB is fluctuating around the mean stock indicators and it could be assumed that the species is considered, in its most recent stock assessment, to have a biomass above the limit reference point (or proxy), so it PASSES clause C1.2.

References

EU. 2018. Regulation (EU) 2018/973 of the European Parliament and of the council of 4 July 2018 establishing a multiannual plan for demersal stocks in the North Sea and the fisheries exploiting those stocks, specifying details of the implementation of the landing obligation in the North Sea and repealing Council Regulations (EC) No 676/2007 and (EC) No 1342/2008. Official Journal of the European Union, L 179: 1–13: <u>http://data.europa.eu/eli/reg/2018/973/oj</u>.

ICES. 2022. Lemon sole (*Microstomus kitt*) in Subarea 4 and divisions 3.a and 7.d (North Sea, Skagerrak and Kattegat, eastern English Channel). *In* Report of the ICES Advisory Committee, 2022. ICES Advice 2022, lem.27.3a47d: <u>https://doi.org/10.17895/ices.advice.19448039.</u>

Munroe, T.A. 2021. *Microstomus kitt*. The IUCN Red List of Threatened Species 2021: e.T18227047A162705396: https://dx.doi.org/10.2305/IUCN.UK.2021-2.RLTS.T18227047A162705396.en.

| Links | | |
|----------------------------|---------------|--|
| MarinTrust Standard clause | 1.3.2.2 | |
| FAO CCRF | 7.5.3 | |
| GSSI | D.3.04, D5.01 | |

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