



MarinTrust Standard V2

By-product Fishery Assessment

*Ling (*Molva molva*) in FAO 27 Northeast Atlantic, ICES Subareas 3, 4, 6-9, 12, and 14 (Northeast Atlantic and Arctic Ocean)*

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	Ling (<i>Molva molva</i>)
	Geographical area:	FAO 27 Northeast Atlantic
	Country of origin of the product:	Flag country not supplied by client
	Stock:	Ling in ICES Subareas 3, 4, 6-9, 12, and 14 (Northeast Atlantic and Arctic Ocean)
Date	28 July 2022	
Report Code	FRA22	
Assessor	Matthew Jew	
Country of origin of the product - PASS	Flag country not supplied by client	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Company Name(s): Bioceval and Copalis			
Country: France			
Email address:		Applicant Code:	
Certification Body Details			
Name of Certification Body:		Global Trust Certification	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Matthew Jew	Léa Lebechnech	0.5	Surveillance 2
Assessment Period	Up to July 2022		

Scope Details	
Main Species	Ling (<i>Molva molva</i>)
Stock	Ling in ICES Subareas 3, 4, 6-9, 12, and 14 (Northeast Atlantic and Arctic Ocean)
Fishery Location	FAO Area 27 Northeast Atlantic
Management Authority (Country/ State)	European Union (Common Fisheries Policy)
Gear Type(s)	2021 Estimates: Longline (40%), Trawl (45%), Gillnets (9%), Other (6%)
Outcome of Assessment	
Peer Review Evaluation	Agree with the assessor's recommendation of approval
Recommendation	APPROVED

Table 2. Assessment Determination

Assessment Determination
<p>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. Ling (<i>Molva molva</i>) do not appear as Endangered or Critically Endangered on IUCN's Red List, nor do they appear in CITES appendices; therefore, <i>Molva molva</i> is eligible for approval for use as Marin trust by-product raw material.</p> <p>One stock is part of this assessment:</p> <ol style="list-style-type: none"> 1) <i>Molva molva</i> in FAO 27 Subareas 3, 4, 6-9, 12, and 14 (Northeast Atlantic and Arctic Ocean). <p>ICES cannot assess the stock and exploitation status relative to MSY and precautionary approach (PA) reference points because information to define reference points is not available. The length-based index (LBI) reference points presented in previous ICES advice are no longer considered to be robust. Therefore, following MarinTrust criteria, the species is assessed as Category D.</p> <p>Table D1 (PSA) shows that the stock as an average productivity score of 1.71 and an average susceptibility score of 3. The PSA risk rating results (Table D3) determined that the species passes.</p> <p>Therefore, Ling in FAO 27 Subareas 3, 4, 6-9, 12, and 14 (Northeast Atlantic and Arctic Ocean) is APPROVED for the production of fishmeal and fish oil under the current MarinTrust v2.0 by-products standard.</p>
Fishery Assessment Peer Review Comments
<p>The internal peer reviewer agrees with the assessor classification of the stock of <i>Molva molva</i> in FAO 27 Subareas 3, 4, 6-9, 12, and 14 (Northeast Atlantic and Arctic Ocean) under Category D, as reference points are not available.</p> <p>With an average productivity score of 1.71 and an average susceptibility score of 3, it passes as per Table D3.</p> <p>Therefore, <i>Molva molva</i> in FAO 27 in Subareas 3, 4, 6-9, 12, and 14 is APPROVED.</p>
Notes for On-site Auditor
<p>Determine which state(s) the plant is sourcing its Ling from.</p>

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 a 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
Ling	<i>Molva molva</i>	Ling in ICES Subareas 3, 4, 6-9, 12, and 14 (Northeast Atlantic and Arctic Ocean)	European Union (Common Fisheries Policy)	D	LC	No

CATEGORY D SPECIES

Category D species are those which are not subject to a species-specific management regime. In the case of mixed trawl fisheries, Category D species may make up the majority of landings. The comparative lack of scientific information on the status of the population of the species means that a risk-assessment style approach must be taken.

¹ <https://www.iucnredlist.org/>

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

D1	Species Name		Ling (<i>Molva molva</i>)	
	Productivity Attribute	Value	Score	
	Average age at maturity (years)	5-6	2	
	Average maximum age (years)	25	2	
	Fecundity (eggs/spawning)	20 – 60 million	1	
	Average maximum size (cm)	200	2	
	Average size at maturity (cm)	92.5	2	
	Reproductive strategy	Pelagic Spawn (Broadcast spawner)	1	
	Mean trophic level	4.4	2	
	Average Productivity Score		1.71	
	Susceptibility Attribute	Value	Score	
	Availability (area overlap)	>30%	3	
	Encounterability (the position of the stock/species within the water column relative to the fishing gear)	Targeted	3	
	Selectivity of gear type	High Capture Rate	3	
	Post-capture mortality	Retained	3	
	Average Susceptibility Score		3	
	PSA Risk Rating (From Table D3)		Pass	
	Compliance rating		PASS	
	<p>Further justification for susceptibility scoring (where relevant) <i>Overlap between the geographic range of the species and the area for the stock under assessment can be estimated as more than 30%.</i></p>			
	<p><small>This map was computer-generated and has not yet been reviewed. <i>Molva molva</i> AquaMaps Data sources: GBIF OBIS</small></p>			
	References			
	Fishbase. 2022. <i>Molva molva</i> . https://www.fishbase.se/summary/Molva-molva.html . Accessed 26 July 2022.			
ICES. 2021. Ling (<i>Molva molva</i>) in Subareas 6-9, 12, and 14, and Divisions 3.a and 4.a (Northeast Atlantic and Arctic Ocean). In Report of the ICES Advisory Committee, 2021. ICES Advice 2021, lin.27.3a4a6-91214. https://doi.org/10.17895/ices.advice.7786 .				
<i>Standard clauses 1.3.2.2</i>				

Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	High productivity (Low risk, score = 1)	Medium productivity (medium risk, score = 2)	Low productivity (high risk, score = 3)
Average age at maturity	<5 years	5-15 years	>15 years
Average maximum age	<10 years	10-25 years	>25 years
Fecundity	>20,000 eggs per year	100-20,000 eggs per year	<100 eggs per year
Average maximum size	<100 cm	100-300 cm	>300 cm
Average size at maturity	<40 cm	40-200 cm	>200 cm
Reproductive strategy	Broadcast spawner	Demersal egg layer	Live bearer
Mean Trophic Level	<2.75	2.75-3.25	>3.25

Susceptibility attributes	Low susceptibility (Low risk, score = 1)	Medium susceptibility (medium risk, score = 2)	High susceptibility (high risk, score = 3)
Areal overlap (availability) Overlap of the fishing effort with the species range	<10% overlap	10-30% overlap	>30% overlap
Encounterability The position of the stock/species within the water column relative to the fishing gear, and the position of the stock/species within the habitat relative to the position of the gear	Low overlap with fishing gear (low encounterability).	Medium overlap with fishing gear.	High overlap with fishing gear (high encounterability). Default score for target species
Selectivity of gear type Potential of the gear to retain species	a Individuals < size at maturity are rarely caught	a Individuals < size at maturity are regularly caught.	a Individuals < size at maturity are frequently caught
	b Individuals < size at maturity can escape or avoid gear.	b Individuals < half the size at maturity can escape or avoid gear.	b Individuals < half the size at maturity are retained by gear.
Post-capture mortality (PCM) The chance that, if captured, a species would be released and that it would be in a condition permitting subsequent survival	Evidence of majority released post-capture and survival.	Evidence of some released post-capture and survival.	Retained species or majority dead when released.

D3		Average Susceptibility Score		
		1 - 1.75	1.76 - 2.24	2.25 - 3
Average Productivity Score	1 - 1.75	PASS	PASS	PASS
	1.76 - 2.24	PASS	PASS	TABLE D4
	2.25 - 3	PASS	TABLE D4	TABLE D4