



## MarinTrust Standard V2

### By-product Fishery Assessment *Report Template (Round sardinella, Sardinella aurita in FAO Area 34)*

**MarinTrust Programme**

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**Table 1 Application details and summary of the assessment outcome**

Fishery Under Assessment	Species:	Round sardinella ( <i>Sardinella aurita</i> )
	Geographical area:	FAO Area 34 Atlantic Eastern Central
	Country of origin of the product:	Morocco
	Stock:	Atlantic Eastern Central round sardinella stock
Date	8 February 2022	
Report Code	BP020	
Assessor	Geraldine Criquet	
Country of origin of the product - PASS	Morocco	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Company Name(s): Laayoune Proteine			
Country: Morocco			
Email address:		Applicant Code:	
Certification Body Details			
Name of Certification Body:		Global Trust Certification	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Geraldine Criquet	Vito Romito	0.5	Surveillance 2
Assessment Period	To February 2022		

Scope Details	
Main Species	Round sardinella ( <i>Sardinella aurita</i> )
Stock	Atlantic Eastern Central round sardinella stock
Fishery Location	FAO Area 34 Atlantic Eastern Central
Management Authority (Country/ State)	Fishery Committee for the Eastern Central Atlantic / Morocco Ministère de l'Agriculture, de la Pêche Maritime, du Développement Durable et des Eaux et Forêts
Gear Type(s)	Purse seine, midwater trawl
Outcome of Assessment	
Peer Review Evaluation	Approve
Recommendation	<b>APPROVED</b>

## 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. Round sardinella (<i>Sardinella aurita</i>) is neither listed as Endangered or Critically Endangered on IUCN's Red List, nor listed in CITES appendices; therefore, cod is eligible for approval for use as Marin Trust by-product raw material.</p> <p>The fishery in the zone C is managed under a plan which includes a TAC (all small pelagic species combined), bycatch limits, species restrictions, spatial zoning and closed areas. The fishery in zones A+B is also managed via a management plan but using limits on effort rather than a TAC. Therefore, management measures are applied to the small pelagics fishery, but it is not clear the extent to which these are specific measures for round sardinella. In addition, reference points are undefined for the stock. Therefore, it is categorised as Category D and a PSA was conducted.</p> <p>With an average productivity score of 1.14 and an average susceptibility score of 1.5, it PASSES Table D1.</p> <p>Therefore, Atlantic Eastern Central round sardinella is <b>APPROVED</b> for the production of fishmeal and fish oil under the current Marin Trust v 2.0 by-products.</p>
Fishery Assessment Peer Review Comments
<p>The Peer Reviewer agrees that the species is correctly categorised as Category D and a PSA was conducted, which gained a pass score. Therefore, Atlantic Eastern Central round sardinella shall be <b>APPROVED</b> for the production of fishmeal and fish oil under the current Marin Trust v 2.0 by-products.</p>
Notes for On-site Auditor
<p>NA</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 <sup>1</sup>	CITES Appendix 1 <sup>2</sup>
Round sardinella	<i>Sardinella aurita</i>	Atlantic Eastern Central round sardinella stock	Fishery Committee for the Eastern Central Atlantic / Morocco Ministère de l'Agriculture, de la Pêche Maritime, du Développement Durable et des Eaux et Forêts	C	LC	No

<sup>1</sup> <https://www.iucnredlist.org/>

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

## 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

<b>D1</b>	<b>Species Name</b>	<b>Round sardinella, <i>Sardinella aurita</i></b>	
	<b>Productivity Attribute</b>	<b>Value</b>	<b>Score</b>
	Average age at maturity (years)	< 2 years	1
	Average maximum age (years)	7 years	1
	Fecundity (eggs/spawning)	26,000-216,000 eggs	1
	Average maximum size (cm)	41 cm	1
	Average size at maturity (cm)	18.8 cm	1
	Reproductive strategy	Broadcast spawner	1
	Mean trophic level	3	2
	<b>Average Productivity Score</b>		<b>1.14</b>
	<b>Susceptibility Attribute</b>	<b>Value</b>	<b>Score</b>
	Overlap of adult species range with fishery	Information not available	NA
	Distribution	Throughout region	1
	Habitat	Pelagic-neritic	1
	Depth range	Down to 350 m	1
	Selectivity	Species < mesh size	1
	Post-capture mortality	Most dead or retained	3
	<b>Average Susceptibility Score</b>		<b>1.5</b>
	<b>PSA Risk Rating (From Table D3)</b>		<b>PASS</b>
	<b>Compliance rating</b>		<b>PASS</b>
<b>References</b>			
Fishbase – <i>Sardinella aurita</i> <a href="https://www.fishbase.de/summary/Sardinella-aurita.html">https://www.fishbase.de/summary/Sardinella-aurita.html</a>			
Standard clauses 1.3.2.2 taken.			

Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	Low productivity/ High risk	Medium productivity/ Medium risk	High productivity/ Low risk
	Score 3	Score 2	Score 1
Average age at maturity (years)	>4	2 to 4	<2
Average maximum age (years)	>30	10 to 30	<10
Fecundity (eggs/spawning)	<1 000	1 000 to 10 000	>10 000
Average maximum size (cm)	>150	60 to 150	<60
Average size at maturity (cm)	>150	30 to 150	<30
Reproductive strategy	Live bearer, mouth brooder or significant parental investment	Demersal spawner "berried"	Broadcast spawner
Mean trophic level	>3.25	2.5–3.25	<2.5

Susceptibility attributes		High susceptibility/ High risk	Medium susceptibility/ Medium risk	Low susceptibility/ Low risk
		Score 3	Score 2	Score 1
Availability	1) Overlap of adult species range with fishery	>50% of stock occurs in the area fished	Between 25% and 50% of the stock occurs in the area fished	<25% of stock occurs in the area fished
	2) Distribution	Only in the country/ fishery	Limited range in the region	Throughout region/ global distribution
Encounterability	1) Habitat	Habitat preference of species make it highly likely to encounter trawl gear (e.g. demersal, muddy/sandy bottom)	Habitat preference of species make it moderately likely to encounter trawl gear (e.g. rocky bottom/reefs)	Depth or distribution of species make it unlikely to encounter trawl gear (e.g. epi-pelagic or meso-pelagic)
	2) Depth range	High overlap with trawl fishing gear (20 to 60 m depth)	Medium overlap with trawl fishing gear (10 to 20 m depth)	Low overlap with trawl fishing gear (0 to 10 m, >70 m depth)
Selectivity		Species >2 times mesh size or up to 4 m length	Species 1 to 2 times mesh size or 4 to 5 m length	Species <mesh size or >5 m length
Post capture mortality		Most dead or retained Trawl tow >3 hours	Alive after net hauled Trawl tow 0.5 to 3 hours	Released alive Trawl tow <0.5 hours

**Note:** Availability 2 is only used when there is no information for Availability 1; the most conservative score between Encounterability 1 and 2 is used.

<b>D3</b>		<b>Average Susceptibility Score</b>		
		<b>1 - 1.75</b>	<b>1.76 - 2.24</b>	<b>2.25 - 3</b>
<b>Average Productivity Score</b>	<b>1 - 1.75</b>	PASS	PASS	PASS
	<b>1.76 - 2.24</b>	PASS	PASS	TABLE D4
	<b>2.25 - 3</b>	PASS	TABLE D4	TABLE D4

<b>D4 Species Name</b>			
<b>Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements</b>			
<b>D4.1</b>	The potential impacts of the fishery on this species are considered during the management process, and reasonable measures are taken to minimise these impacts.		
<b>D4.2</b>	There is no substantial evidence that the fishery has a significant negative impact on the species.		
<b>Outcome:</b>			
<b>Evidence</b>			
<b>D4.1: The potential impacts of the fishery on this species are considered during the management process, and reasonable measures are taken to minimise these impacts.</b>			
<b>D4.2 There is no substantial evidence that the fishery has a significant negative impact on the species.</b>			
<b>References</b>			
<b>Links</b>			
<b>MarinTrust Standard clause</b>		1.3.2.2, 4.1.4	
<b>FAO CCRF</b>		7.5.1	
<b>GSSI</b>		D.5.01	