



MarinTrust Standard V2

By-product Fishery Assessment

ESP09 European pilchard in GFCM GSA

17 & 18

MarinTrust Programme

Unit C, Printworks

22 Amelia Street

London

SE17 3BZ

E: standards@marin-trust.com

T: +44 2039 780 819

Table 1 Application details and summary of the assessment outcome

| | | |
|---|-----------------------------------|--|
| Fishery Under Assessment | Species: | European pilchard, <i>Sardina pilchardus</i> |
| | Geographical area: | FAO 37 |
| | Country of origin of the product: | Spain, Portugal |
| | Stock: | GFCM GSA 17 & 18 |
| Date | May 2023 | |
| Report Code | ESP09 | |
| Assessor | Sam Peacock | |
| Country of origin of the product - PASS | Spain, Portugal | |
| Country of origin of the product - FAIL | None | |

| Application details and summary of the assessment outcome | | | |
|---|---------------------|-----------------|-----------------------------------|
| Company Name(s): Sarval Bio-Industries Noroeste S.A.U. S.A.U: Arteixo | | | |
| Country: | | | |
| Email address: | | Applicant Code: | |
| Certification Body Details | | | |
| Name of Certification Body: | | LRQA | |
| Assessor | Peer Reviewer | Assessment Days | Initial/Surveillance/ Re-approval |
| Sam Peacock | Jose Piero Crespo | 0.2 | Surveillance 1 |
| Assessment Period | May 2023 – May 2024 | | |

| Scope Details | |
|---------------------------------------|--|
| Main Species | European pilchard, <i>Sardina pilchardus</i> |
| Stock | GFCM GSA 17 & 18 |
| Fishery Location | FAO 37 |
| Management Authority (Country/ State) | GFCM |
| Gear Type(s) | Purse seine & pelagic trawl |
| Outcome of Assessment | |
| Peer Review Evaluation | Pass |
| Recommendation | Pass |

Table 2. Assessment Determination

| Assessment Determination |
|--|
| <p>European pilchard has been categorised by the IUCN as Near Threatened and does not appear in the CITES appendices. The pilchard stock in General Fisheries Commission for the Mediterranean (GFCM) GSAs 17 & 18 is not managed relative to biomass-based reference points¹, and was assessed under Category D.</p> <p>European pilchard was awarded a Productivity score of 1.14 and a Susceptibility score of 2.5, leading to a rating of Pass on Table D3. Therefore the byproduct continues to meet the MT requirements and should remain approved for use as a raw material.</p> |
| Fishery Assessment Peer Review Comments |
| <p>The by-product fishery under assessment is the European pilchard (<i>Sardina pilchardus</i>) caught using purse seine and pelagic trawls in the Mediterranean Geographical Subarea - GFCM GSAs 17 and 18 (Northern and Southern Adriatic Sea). European pilchard in the area is classified as NT in the IUCN red list and it is not managed relative to biomass-based reference points. Therefore, it was assessed under category D (productivity-susceptibility analysis).</p> <p>The species scoring table has been completed by the auditor, and sufficient evidence given to justify the scores and the final determination.</p> <p>The peer review supports the auditor’s recommendation to pass the GFCM GSAs 17 and 18 European pilchard purse seine & pelagic trawl fishery under the Marin Trust IFFO RS v2.0 by-fishery standard for the production of fishmeal and fish oil.</p> |
| Notes for On-site Auditor |
| |

¹ See Table 2 on page 36 of the GFCM Report of the 23rd Session of the Scientific Advisory Committee on Fisheries, June 2022: <https://www.fao.org/3/cc3109en/cc3109en.pdf>

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 ² | CITES Appendix 1 ³ |
|-------------------|---------------------------|------------------|------------|----------|-------------------------------------|-------------------------------|
| European pilchard | <i>Sardina pilchardus</i> | GFCM GSA 17 & 18 | No | D | Near Threatened ⁴ | No |

² <https://www.iucnredlist.org/>

³ <https://cites.org/eng/app/appendices.php>

⁴ <https://www.iucnredlist.org/species/198580/45075369>

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.

| Species Name | | n/a | |
|--|---|--|------------------------|
| C1 | Category C Stock Status - Minimum Requirements | | |
| | C1.1 | Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible. | |
| | 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. | |
| | | | Clause outcome: |
| C1.1 Fishery removals of the species in the fishery under assessment are included in the stock assessment process, OR are considered by scientific authorities to be negligible. | | | |
| 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. | | | |
| References | | | |
| Links | | | |
| MarinTrust Standard clause | | 1.3.2.2 | |
| FAO CCRF | | 7.5.3 | |
| GSSI | | D.3.04, D5.01 | |

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.

| | | | |
|---|---|--------------------------|--------------|
| D1 | Species Name | European pilchard | |
| | Productivity Attribute | Value | Score |
| | Average age at maturity (years) | 2 years | 1 |
| | Average maximum age (years) | 7 years | 1 |
| | Fecundity (eggs/spawning) | 156,525 | 1 |
| | Average maximum size (cm) | 27.5cm | 1 |
| | Average size at maturity (cm) | 11.8cm | 1 |
| | Reproductive strategy | Broadcast spawner | 1 |
| | Mean trophic level | 3.1 | 2 |
| | Average Productivity Score | | 1.14 |
| | Susceptibility Attribute | Value | Score |
| | Availability (area overlap) | <10% overlap | 1 |
| | Encounterability (the position of the stock/species within the water column relative to the fishing gear) | Targeted | 3 |
| | Selectivity of gear type | Retained | 3 |
| | Post-capture mortality | Retained | 3 |
| | Average Susceptibility Score | | 2.5 |
| | PSA Risk Rating (From Table D3) | | PASS |
| | Compliance rating | | PASS |
| | Further justification for susceptibility scoring (where relevant) | | |
| | <i>For susceptibility attributes, please provide a brief rationale for scoring of parameters where there may be uncertainty affecting your decision</i> | | |
| |  | | |
| European pilchard distribution, from Fishbase (https://www.fishbase.se/summary/1350) | | | |

References

Fishbase, European pilchard: <https://www.fishbase.se/summary/1350>

Standard clauses 1.3.2.2

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 |

| D4 Species Name | | | |
|---|---|----------------|-----------------|
| Impacts On Species Categorised as Vulnerable by D1-D3 - Minimum Requirements | | | |
| 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. | | |
| D4.2 | There is no substantial evidence that the fishery has a significant negative impact on the species. | | |
| | | | Outcome: |
| Evidence | | | |
| 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. | | | |
| D4.2 There is no substantial evidence that the fishery has a significant negative impact on the species. | | | |
| References | | | |
| Links | | | |
| MarinTrust Standard clause | | 1.3.2.2, 4.1.4 | |
| FAO CCRF | | 7.5.1 | |
| GSSI | | D.5.01 | |