



MarinTrust Standard V2

By-product Fishery Assessment

*Scallop (Pecten maximus) in FAO 27,
ICES 2.a, 4.a, b, 5, 6.a, 7.a, d, e, g, h, 8*

MarinTrust Programme

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Table 1 Application details and summary of the assessment outcome

Fishery Under Assessment	Species:	King Scallop (<i>Pecten maximus</i>)
	Geographical area:	FAO 27 Northeast Atlantic
	Country of origin of the product:	UK & Ireland
	Stock:	King Scallop in ICES 2.a, 4.a,b, 5, 6.a, 7.a, d, e, g, h, 8
Date	8 August 2023	
Report Code	GBR27	
Assessor	Matthew Jew	
Country of origin of the product - PASS	UK & Ireland	
Country of origin of the product - FAIL	NA	

Application details and summary of the assessment outcome			
Company Name(s): Pelagia UK			
Country: UK & Ireland			
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	Ivan Mateo	0.5	Surveillance 1
Assessment Period	Up to August 2023		

Scope Details	
Main Species	King scallop (<i>Pecten maximus</i>)
Stock	King scallop in ICES 2.a, 4.a, b, 5, 6.a, 7.a, d, e, g, h, 8
Fishery Location	FAO 27 Northeast Atlantic
Management Authority (Country/ State)	UK & EU CFP
Gear Type(s)	Not provided by client
Outcome of Assessment	
Peer Review Evaluation	Agree with assessor's assessment
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. King scallop (<i>Pecten maximus</i>) does not appear as Endangered or Critically Endangered on IUCN’s Red List, and does not appear in CITES appendices; therefore, <i>Pecten maximus</i> is eligible for approval for use as Marin trust by-product raw material.</p> <p>Scallop stocks are not subject to a species-specific management regime. Therefore, this stock cannot be assessed under category C and, instead, will be assessed as category D.</p> <p>Table D1 (PSA) shows that the stock as an average productivity score of 1.14 and an average susceptibility score of 3. The PSA risk rating results (Table D3) determined that the species passes.</p> <p>Therefore, king scallop in ICES 2.a, 4.a, b, 5, 6.a, 7.a, d, e, g, h, 8 is APPROVED for the production of fishmeal and fish oil under the current MarinTrust v2.3 by-products.</p>
Fishery Assessment Peer Review Comments
<p>The assessor correctly classified the king scallop in ICES 2.a, 4.a, b, 5, 6.a, 7.a, d, e, g, h, 8 as category D, because information to define reference points is not available. Thus, this stock is not subject to a species-specific management regime. PSA analysis was correctly conducted.</p> <p>Table D1 (PSA) shows that the stock has an average productivity score of 1.14 and an average susceptibility score of 3. The PSA risk rating results (Table D3) determined that the species passes.</p> <p>Therefore, I agree with the assessor that the king scallop in ICES 2.a, 4.a, b, 5, 6.a, 7.a, d, e, g, h, 8 should be APPROVED for the production of fishmeal and fish oil under the current MarinTrust v2.0 by-products</p>
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 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

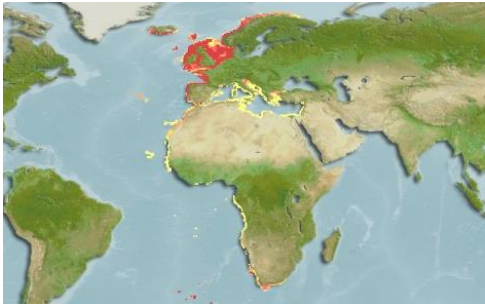
Common name	Latin name	Stock	Management	Category	IUCN Red List Category ¹	CITES Appendix 1 ²
King Scallop	<i>Pecten maximus</i>	King Scallop in ICES 2.a, 4.a, b, 5, 6.a, 7.a, d, e, g, h, 8	UK & EU CFP	D	Not Assessed	No

¹ <https://www.iucnredlist.org/>

² <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 taken.

D1	Species Name	King scallop (<i>Pecten maximus</i>)	
	Productivity Attribute	Value	Score
	Average age at maturity (years)	2 years	1
	Average maximum age (years)	20 years	2
	Fecundity (eggs/spawning)	>20,000	1
	Average maximum size (cm)	17cm Shell Length	1
	Average size at maturity (cm)	6-8 cm	1
	Reproductive strategy	Broadcast Spawner	1
	Mean trophic level	~2 (Filter Feeding Invert)	1
	Average Productivity Score		1.14
	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)	High overlap	3
	Selectivity of gear type	High selectivity	3
	Post-capture mortality	Retained	3
	Average Susceptibility Score		3
	PSA Risk Rating (From Table D3)		PASS
	Compliance rating		PASS
	Further justification for susceptibility scoring (where relevant)		
	<ol style="list-style-type: none"> 1. <i>Availability: The submitted stock is ICES 2.a, 4.a, b, 5, 6.a, 7.a, d, e, g, h, 8 has significant overlap with the highest areas of probable occurrence within the species' geographic range.</i> 		
			
	<p><i>Although gear type is not provided by client, the assumed gear type is dredge.</i></p> <ol style="list-style-type: none"> 2. <i>Encounterability: scallop dredge is intended to encounter scallops.</i> 3. <i>Selectivity of gear type: scallop dredge is intended to retain scallop</i> 4. <i>Post-capture mortality: Retained species is scored as a 3.</i> 		
	References		
<p>Chauvaud L, Patry Y, Jolivet A, Cam E, Le Goff C, Strand Ø, Charrier G, Thébaud J, Lazure P, Gotthard K, Clavier J. 2012. Variation in size and growth of the great scallop <i>Pecten maximus</i> along a latitudinal gradient. PloS one 7(5): e37717.</p> <p>Jennings, S., J. Lancaster, A. Woolmer and J. Cotter 1999 Distribution, diversity and abundance of epibenthic fauna in the North Sea. Journal of the Marine Biological Association of the UK 79:385-399.</p>			

Le Goff C, Lavaud R, Cugier P, Jean F, Flye-Sainte-Marie J, Foucher E, Desroy N, Fifas S, Foveau A. 2017. A coupled biophysical model for the distribution of the great scallop *Pecten maximus* in the English Channel. *Journal of Marine Systems* 167:55-67.

Salomonsen, H. M., Lambert, G. I., Murray, L.G. & Kaiser, M.J. 2015. The spawning of King scallop, *Pecten maximus*, in Welsh waters – A preliminary study. *Fisheries & Conservation report No. 57*, Bangor University. pp.21

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