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# Fish species identification in canned products

Final report

to:

Greenpeace

Derio, 11 de noviembre de 2010

File Final report  
Date 11/11/2010  
Project Fish species identification in canned products  
Code IA10GP1  
Client Greenpeace

Samples Samples were received in August  
Analysis were carried out in September/October

Technicians Nagore Egurrola  
Mari José Sierra

Responsible Miguel Angel Pardo

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Reviewer Miguel Angel Pardo  
Date

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Approved by Kepa Escuredo  
Date

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## OBJECTIVE

The objective of this project is the verification of the correct identification of tuna species in different canned tuna samples by molecular techniques based on the analysis of DNA.

## METHODOLOGY

### *DNA extraction*

Before proceeding towards the DNA extraction, oil, lipids and sauces were removed by blotting with filter paper. Afterwards, the muscle tissue (0.1–0.3 g) was solubilised in 0.45 ml of an extraction buffer [1% (w/v) SDS, 150 mM NaCl, 2 mM EDTA, 10 mM Tris-HCl, pH 8.0, supplemented with 50 µl of 5 M guanidinium thiocyanate and 40 µl of proteinase K solution (600 U ml<sup>-1</sup>) (Bioline, London UK). The mixture was incubated at 56 °C for 1–2 h and then centrifuged at 8,000 x g for 5 min, as many times as necessary until a clear supernatant was obtained. The supernatant was treated with a Wizard-DNA Clean-Up Extraction Kit (Promega, Madison USA) and the purified DNA was resuspended in bidistilled sterile water and stored at -20 °C.

In all cases, every canned item was randomly sampled twice but in the “light tuna” labelled items the whole tissue of can was homogenised before sampling.

### *Identification of tuna species*

We have set different methodologies regarding to the commercial label of the samples. This way we can differentiate among “white tuna”, “light tuna” and “tuna”

#### *i) White tuna*

The amplification of a DNA fragment of 76 bp (base pairs) of the mitochondrial cytochrome b gene was performed using a total reaction volume of 25 µl in a MicroAmp Optical 96-well reaction plate (Applied Biosystems, Foster City, CA, USA). Real-time reactions were carried out with TaqMan™ Universal Master Mix (Applied Biosystems, Foster City, CA, USA) containing the primers and probes described in the procedure MA-BM-02. Reactions were run on the ABI Prism™ 7000 sequence detection system (Applied Biosystems, Foster City, CA, USA) with the following thermal conditions: 50°C for 2 min, 95°C for 10 min followed by 40 cycles of 95°C for 15 s and 60°C for one min.

This methodology is suitable for the authentication of “white tuna” as *Thunnus alalunga* species.

#### *ii) Light tuna*

The amplification of a DNA fragment of 88 bp (base pairs) of the mitochondrial cytochrome b gene was performed using a total reaction volume of 25 µl in a MicroAmp Optical 96-well reaction plate (Applied Biosystems, Foster City, CA, USA). Real-time reactions were carried out with TaqMan™ Universal Master Mix (Applied Biosystems, Foster City, CA, USA) containing the primers and probes described in the procedure MA-BM-01. Reactions were run on the ABI Prism™ 7000 sequence detection system (Applied Biosystems, Foster City, CA, USA) with the following thermal conditions: 50°C for 2 min, 95°C for 10 min followed by 40 cycles of 95°C for 15 s and 60°C for one min.

This methodology is suitable for the authentication of “light tuna” as *Thunnus albacares* and *Thunnus obesus* species. Moreover, we can detect the presence of mixtures of both species with a limit of detection of 15% of tissue (w/w)

#### ii) Tuna

The amplification of a DNA fragment of 176 bp (base pairs) of the mitochondrial cytochrome b were carried out as follows: 10 mM Tris-HCl, pH 9.0, 50 mM KCl, 0.2 mM dNTPs, 3.5 mM MgCl<sub>2</sub>, 1 µM of primer, and 0.1-1 µg of template DNA. The reaction was started by adding 1 unit/reaction Taq DNA Polymerase (Amersham Biosciences AB, Buckinghamshire, UK) to the reaction mixture. Reaction volumes of 50 µl were used. Amplification reactions were developed in a Mastercycler Personal from Eppendorf, with the following thermal conditions: 40 cycles of 92°C for 60 s, 54°C for one min and 72 °C for 30 s and a final elongation step at 72°C for 10 min.

The amplicons were purified with the GFX-PCR-DNA and Gel Band Purification Kit (Amersham Biosciences AB, Buckinghamshire, UK). DNA Sequencing was carried out directly on the purified fragments with a 3700 DNA Analyzer ABI PRISM, using the ABI Prism BigDye Terminator Cycle Sequencing Ready Reaction Kit, version 3.0 (Applied Biosystems, Foster City, USA).

The sequences were aligned with the DNA sequences included in the AZTI-Tecnalia and GenBank (<http://blast.ncbi.nlm.nih.gov/>) databases.

In some cases, the quality of isolated DNA from tuna samples was so bad that it was impossible to amplify the 176 bp diagnostic fragment. This problem can be due to:

- a) the high temperature processing
- b) the presence of acidic compounds (lemon, vinegar...) that degrades the DNA
- c) the presence of inhibitors of PCR

In these cases, we have only checked the presence of light tuna species with the ii) methodology. With this methodology we was able to amplify a short fragment of 88 bp because it is much more sensitive and robust.

## RESULTS

AZTI CODE	SAMPLE	COMMERCIAL DENOMINATION	FISH IDENTIFICATION
IA10GP1.01	Atun en aceite vegetal NIXE. Fabricado por EC-29 para Lidl Supermercados S.A. Peso neto:1000g . L10-145-A/ILL . Consumo preferente:31-12-2016. Ecuador 29 . Client codification:Lata 37 L-10-1451-A 22/07	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.02	Atun en aceite vegetal NIXE. Fabricado por EC-29 para Lidl Supermercados S.A. Peso neto:1000g . L10-161-A/ILL . Consumo preferente:31-12-2016. Ecuador 29 . Client codification:Lata 40 L-10-161-A 29/07	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.03	Atun en aceite vegetal NIXE. Fabricado por EC-29 para Lidl Supermercados S.A. Peso neto:1000g . L10-143-A/ILL . Consumo preferente:31-12-2016. Ecuador 29 . Client codification:Lata 43 L-10-043-A 29/07	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.04	Snacks de Atún sin Gluten HACENDADO Peso neto:375g. Consumo preferente:16.03.2013. LJ0075X 02XX22 411327 Client codification:Lata 1 23/07 LJ0075X	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.05	Snacks de Atún sin Gluten HACENDADO Peso neto:375g. Consumo preferente:26.03.2013. LJ0085X 06XX09 161327 Client codification:Lata 4 23/07 LJ0085X	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.06	Snacks de Atún sin Gluten HACENDADO Peso neto:375g. Consumo preferente:15.03.2013. LJ0074X 01XX08 211327 Client codification:Lata 7 29/07 LJ0074X	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.07	Atún en aceite vegetal ISABEL Peso neto:400g. Consumo preferente:31-12-2016. L-10-148-F 8AA4-15-49 Client codification:Lata 11 L-10-148-F 29/07	TUNA	<i>Thunnus obesus</i>
IA10GP1.08	Atún en aceite vegetal ISABEL Peso neto:400g. Consumo preferente:31-12-2016. L-10-160-C 8AA4-09-24 Client codification:Lata 13 L-10-160-C 22/07	TUNA	<i>Thunnus obesus</i>
IA10GP1.09	Atún en aceite vegetal ISABEL Peso neto:400g. Consumo preferente:31-12-2016. L-10-159-E 8AA4-17-10 Client codification:Lata 16 L-10-159-F 29/07	TUNA	<i>Thunnus obesus</i>
IA10GP1.10	Atún claro en aceite vegetal CALVO L-T155 ALS3 07:35 Client codification:Lata 19 L.T155 22/07	LIGHT TUNA	<i>Light tuna (Thunnus obesus/Thunnus albacares)</i>
IA10GP1.11	Atún claro en aceite vegetal CALVO L-T102 ALS4 09:09 Client codification:Lata 22 L.T.102 28/07	LIGHT TUNA	<i>Light tuna (Thunnus obesus/Thunnus albacares)</i>
IA10GP1.12	Atún claro en aceite vegetal CALVO L-T140 ALA/BLS3 08:25 Client codification:Lata 25 L.T140 28/07	LIGHT TUNA	<i>Light tuna (Thunnus obesus/Thunnus albacares)</i>
IA10GP1.13	Atún claro en aceite vegetal CAMPOS Importado por Salica. Producto de Ecuador N° 626. Peso neto:160g. Consumo preferente: 31/12/2015. LE51YGL5 AB20109 03:20A Client codification:Lata 28 LE51YGL5 22/07	LIGHT TUNA	<i>Light tuna (Thunnus obesus/Thunnus albacares)</i>
IA10GP1.14	Atún claro en aceite vegetal CAMPOS Importado por Salica. Producto de Ecuador N° 626. Peso neto:160g. Consumo preferente: 31/12/2015. LE34YGL4 G10608 08:47B Client codification:Lata 31 LE34YGL4YGL5 28/07	LIGHT TUNA	<i>Light tuna (Thunnus albacares)</i>
IA10GP1.15	Atún claro en aceite vegetal CAMPOS Importado por Salica. Producto de Ecuador N° 626. Peso neto:160g. Consumo preferente: 31/12/2015. LE42YGL4 A10109 00:40A Client codification:Lata 34 LE42YGL4 29/07	LIGHT TUNA	<i>Light tuna (Thunnus obesus/Thunnus albacares)</i>
IA10GP1.16	Tuna Chunks in brine ASDA. Peso Neto:185g. P LCE 2 018A1 0123 02:30 BB Cad:30.04.2013. Produced in Mauritius for Asda Stores Ltd, Leeds LS11 5AD Client codification:Test no. 2/1 UK	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.17	Tuna Chunks in brine ASDA. Peso Neto:185g. P LCE 2 032A1 0113 14:37 BB Cad:31.08.2013. Produced in Mauritius for Asda Stores Ltd, Leeds LS11 5AD Client codification:Test no. 2/2 UK	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.18	Tuna Chunks in brine ASDA. Peso Neto:185g. P SLCE 311 0042 08:40 BB Cad:31.01.2013. Produced in Mauritius for Asda Stores Ltd, Leeds LS11 5AD Client codification:Test no. 2/3 UK	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.19	Skipjack Tuna Chunks in brine.MORRISONS VALUE Peso Neto:170g. BBE-JAN/2012 ECUADOR EU 25 J2B Client codification: Test no 1/2 UK	TUNA	<i>Katsuwonus pelamis</i>

IA10GP1.20	Tuna Chunks in brine.MORRISONS VALUE Peso Neto:170g. 8N28 ASCB PHILIPPINES NO.1246 BBE:DEC.2011 Client codification: Test no 1/3 UK	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.21	Tuna Chunks in brine.MORRISONS VALUE Peso Neto:170g. ASCB 8D06 PHILIPPINES NO.1246 BBE:DEC.2011 Client codification: Test no 1/3 UK	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.22	Tuna Chunks in brine TESCO value Peso Neto:185g. Produced in Ghana for Tesco Stores Ltd . KJWOG A0131N 076 GHANA 15:58 BBE:Dec 2012 GS/SF/EF038 Client codification: Test 3/1 UK	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.23	Tuna Chunks in brine TESCO value Peso Neto:185g. Produced in Seychelles for Tesco Stores Ltd . DEC 2012 CJW5 S810N 085 SEYCHELLESFC01 00:19 Client codification: Test 3/2 UK	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.24	Tuna Chunks in brine TESCO value Peso Neto:185g. Produced in Ghana for Tesco Stores Ltd . KJWDH A0141N 072 GHANA 21:10 BBE:Dec 2012 GS/SF/EF038 Client codification: Test 3/3 UK	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.25	Martinique style salad with tuna NIXE Peso Neto: 280g. Producido por: Conservas Garavilla. L-10-053-E 7EMAR5 15:10 Caducidad: 31.12.2013 Client codification: Test no: 5/1 UK	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.26	Martinique style salad with tuna NIXE Peso Neto: 280g. Producido por: Conservas Garavilla. L-10-053-F 7EMAR5 15:29 Caducidad: 31.12.2013 Client codification: Test no: 5/2 UK	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.27	Martinique style salad with tuna NIXE Peso Neto: 280g. Producido por: Conservas Garavilla. L-09-348-D 8EMAR5 12:28 Caducidad: 31.12.2013 Client codification: Test no: 5/3 UK	TUNA	<i>Thunnus obesus</i>
IA10GP1.28	Tuna Chunks in sunflower Oil (Katsuwonus pelamis, Caught in Pacific Ocean, FAO Nos. 77 and 87) NIXE Peso Neto:185g. RC03K Product of Ecuador no 51 B053G BBE:January/2015 20:06 2 50701K PACIFIC OCEAN.FAO 87 Client codification: Test no 4/1	TUNA	<i>Katsuwonus pelamis*</i>
IA10GP1.29	Tuna Chunks in sunflower Oil (Katsuwonus pelamis, Caught in Pacific Ocean, FAO Nos. 77 and 87) NIXE Peso Neto:185g. RC03K Product of Ecuador no 51 B053G BBE:January/2015 23:01 2 5J801K INDIC OCEAN, FAO 51. Client codification: Test no 4/2	TUNA	<i>Katsuwonus pelamis*</i>
IA10GP1.30	Tuna Chunks in sunflower Oil (Katsuwonus pelamis, Caught in Pacific Ocean, FAO Nos. 77 and 87) NIXE Peso Neto:185g. RC03K Product of Ecuador no 51 B053G BBE:January/2015 18:21 2 50605J Pacific Ocean , FAO 87. Client codification: Test no 4/3	TUNA	<i>Katsuwonus pelamis*</i>
IA10GP1.31	Tuna with lite mayo CHOP CHOP! (Davies Foods) Peso Neto:85g. Product of Thailand. S19E2FM5E 4DCJF Best Before 15 SEP 2011 Client codification: 5/1 NZ	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.32	Tuna with Chilli CHOP CHOP! (Davies Foods) Peso Neto:85g. Product of Thailand. S19E2FM5X 4DCMP Best Before 24 DEC 2011 Client codification: 5/2 NZ	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.33	Tuna with cracked pepper CHOP CHOP! (Davies Foods) Peso Neto:85g. Product of Thailand. S19E2FM5Z 4DCMR Best Before 25 DEC 2011 Client codification: 5/3 NZ	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.34	Skipjack Tuna lemon pepper Greenseas . Packed for H.J. Heinz . Peso Neto: 95g. 00373KA E07810 Client codification: 4/1 NZ	TUNA	<i>No Light tuna</i>
IA10GP1.35	Skipjack Tuna lemon pepper Greenseas . Packed for H.J. Heinz . Peso Neto: 95g. 00373JA E08310 Client codification: 4/2 NZ	TUNA	<i>No Light tuna</i>
IA10GP1.36	Skipjack Tuna lemon pepper Greenseas . Packed for H.J. Heinz . Peso Neto: 95g. 00373JA E03910 Client codification: 4/3 NZ	TUNA	<i>No Light tuna</i>
IA10GP1.37	Tuna spread SEALORD Peso neto: 90g. Product of Thailand. VT2042 LJ2171 BI409 Client codification: 3/1 NZ	TUNA	<i>Thunnus tonggol</i>
IA10GP1.38	Tuna spread SEALORD Peso neto: 90g. Product of Thailand. VT2042 LIC161 B0902 Client codification: 3/2 NZ	TUNA	<i>Thunnus tonggol</i>
IA10GP1.39	Tuna spread SEALORD Peso neto: 90g. Product of Thailand. VT2042 LJ4241 B0830 Client codification: 3/3 NZ	TUNA	<i>Thunnus tonggol</i>
IA10GP1.40	Tuna Flakes in oil pams Peso neto:185g. Product of Thailand. MNNINN AFOOBGE 3EKAM Client codification 1/1 NZ	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.41	Tuna Flakes in oil pams Peso neto:185g. Product of Thailand. MNNINN AFOOBGE 3EE1M Client codification 1/2 NZ	TUNA	<i>Katsuwonus pelamis</i>

IA10GP1.42	Tuna Flakes in oil pams Peso neto:185g. Product of Thailand. MNNINN AFOOBGE 3BOAT Client codification: 1/3 NZ	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.43	Tuna Chunks in brine HOME BRAND. Light Meat Tuna. Peso neto:185g. Packed for Woolworths. Made in Thailand. 4135JN TCTH K Y225 Client codification:2/1 NZ	LIGHT TUNA	<i>No Light tuna</i>
IA10GP1.44	Tuna Chunks in brine HOME BRAND. Light Meat Tuna. Peso neto:185g. Packed for Woolworths. Made in Thailand. 4135JN TCTH K Y408 Client codification:2/2 NZ	LIGHT TUNA	<i>No Light tuna</i>
IA10GP1.45	Tuna Chunks in brine HOME BRAND. Light Meat Tuna. Peso neto:185g. Packed for Woolworths. Made in Thailand. 4135JN TCTH K Y118 Client codification:2/3 NZ	LIGHT TUNA	<i>No Light tuna</i>
IA10GP1.46	Tunfisch schnitzel (flakes) in aufguss. STATESMAN . Peso neto:185g. Produced in Thailand. CJGBC H97GW. BBE: 31.08.2012 Client codification: 2a NL	TUNA	<i>Thunnus albacares</i>
IA10GP1.47	Tunfisch schnitzel (flakes) in aufguss. STATESMAN . Peso neto:185g. Produced in Thailand. CJGBC 49DAX. BBE: 31.08.2013 Client codification: 2b NL	TUNA	<i>Thunnus tonggol</i>
IA10GP1.48	Tunfisch schnitzel (flakes) in aufguss. STATESMAN . Peso neto:185g. Produced in Thailand. CJGBC 3031W. BBE: 28.02.2013 Client codification: 2c NL	TUNA	<i>Thunnus tonggol</i>
IA10GP1.49	Tuna with an Oven Dried Tomato and Herb dressing JOHN WEST Peso neto:85g. Geproduceerd in Thailand. AUG-2011 CST4X C32219 03:01 Client codification: 1a NL	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.50	Tonijn Met ovengedroogde tomaten en kruidendressing JOHN WEST Peso neto:85g. Geproduceerd in Thailand. JAN-2012 CST4X C303010 02:40 Client codification: 1b NL	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.51	Tonijn Met ovengedroogde tomaten en kruidendressing JOHN WEST Peso neto:85g. Geproduceerd in Thailand. DEC-2011 CST4X C33539 10:51 Client codification: 1c NL	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.52	TONIJN met groente in pikante saus Grand Gérard Peso neto:185g. Tenminste houdbaar tot 31.07.2012. SDNONLA PROD: 17-08-2009 Client codification: 3a NL	TUNA	<i>Euthynnus spp.</i>
IA10GP1.53	TONIJN met groente in pikante saus Grand Gérard Peso neto:185g. Tenminste houdbaar tot 31.07.2012. SDNONLB PROD: 17-08-2009 Client codification: 3b NL	TUNA	<i>Katsuwonus pelamis*</i>
IA10GP1.54	TONIJN met groente in pikante saus Grand Gérard Peso neto:185g. Tenminste houdbaar tot 31.07.2012. SDNONLD PROD: 17-08-2009 Client codification: 3c NL	TUNA	<i>Katsuwonus pelamis*</i>
IA10GP1.55	Insalatissime Mexicana au thon Rio mare Peso neto:160g. Prodotto per BOLTON ALIMENTARI s.p.A. Da consumarsi preferibilmente entro il 28/07/2012 A. MEXICAN SALAD 11H04/3 A PROD28/07/09EXP28/07/12 Client codification: 4a NL	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.56	Insalatissime Mexicana au thon Rio mare Peso neto:160g. Prodotto per BOLTON ALIMENTARI s.p.A. Da consumarsi preferibilmente entro il 04/08/2012 A. MEXICAN SALAD 09H46/3 A PROD04/08/09EXP04/08/12 Client codification: 4b NL	TUNA	<i>Katsuwonus pelamis*</i>
IA10GP1.57	Insalatissime Mexicana mit thunfisch Rio mare Peso neto:160g. Prodotto per BOLTON ALIMENTARI s.p.A. Da consumarsi preferibilmente entro il 16/06/2012 A. MEXICAN SALAD 17H26/3 A PROD16/06/09EXP16/06/12 Client codification: 4c NL	TUNA	<i>Katsuwonus pelamis*</i>
IA10GP1.58	American style salad with tuna NiXe (Katsuwonus pelamis) Conservas Garavilla. Peso neto:280g. Consumir preferentemente antes de: 31.12.2014. L-10-123-G BEAME5-21:32 Client codification: 5a NL	TUNA	<i>Thunnus obesus</i>
IA10GP1.59	American style salad with tuna NiXe (Katsuwonus pelamis) Conservas Garavilla. Peso neto:280g. Consumir preferentemente antes de: 31.12.2014. L-10-123-G BEAME5-21:49 Client codification: 5b NL	TUNA	<i>Thunnus obesus</i>
IA10GP1.60	American style salad with tuna NiXe (Katsuwonus pelamis) Conservas Garavilla. Peso neto:280g. Consumir preferentemente antes de: 31.12.2014. L-10-159-H 7EAME4-17:35 Client codification: 5c NL	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.61	Thunfischfilets, peschnitten in eigenem Saft und auguss TUNA (Katsuwonus pelamis) Peso neto:200g. MHB: 30.06.2012 SSB33P 20N9 Client codification: 1/1 GER	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.62	Thunfischfilets, peschnitten in eigenem Saft und auguss TUNA (Katsuwonus pelamis) Peso neto:200g. 9N20 ASSB MHD:20.11.2012 Client codification: 1/2 GER	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.63	Thunfischfilets, peschnitten in eigenem Saft und auguss TUNA (Katsuwonus pelamis) Peso neto:200g. SSB33P 18N9 MHD:30.06.2010 Client codification: 1/3 GER	TUNA	<i>Katsuwonus pelamis</i>

IA10GP1.64	Thunfisch-filetes geschnitten, in sonnenblumenöl Schlemmer Küche Peso neto:185g. PRODUCT OF INDONESIA 138.13.C 09017/1256) MHD: 31.01.2012 Client codification: 2/1 GER	TUNA	<i>Thunnus tonggol</i>
IA10GP1.65	Thunfisch-filetes geschnitten, in sonnenblumenöl Schlemmer Küche Peso neto:185g. PRODUCT OF VIETNAM FTSSFGA P:0901012 MHD: 31.12.2013 Client codification: 2/2 GER	TUNA	<i>Thunnus tonggol</i>
IA10GP1.66	Thunfisch-filetes geschnitten, in sonnenblumenöl Schlemmer Küche Peso neto:185g. PRODUCT OF VIETNAM FTSSFGA P:0901012 MHD: 31.12.2013 Client codification: 2/3 GER	TUNA	<i>Thunnus tonggol</i>
IA10GP1.67	Thunfisch in Sonnenblumenöl Saupiquet Peso neto:185g. TH-2004 26/11/2014 26/11/2014 TH-2004 CJCFC 39NQW 11:38 Client codification: 3/1 GER	TUNA	<i>No Light tuna</i>
IA10GP1.68	Thunfischnaturale-ohne Öl Saupiquet Peso neto:185g. EC-25 31-05-2013 31-05-2013 12:19 USJ23B7 J1B EC-25 Client codification: 3/2 GER	TUNA	<i>Katsuwonus pelamis*</i>
IA10GP1.69	Thunfisch in Sonnenblumenöl Saupiquet Peso neto:185g. 26-06-2014 USI26J6 ECUADOR-25 Client codification: 3/3 GER	TUNA	<i>Katsuwonus pelamis*</i>
IA10GP1.70	Thunfisch-Stücke (Skipjack, Katsuwonus pelamis) in eigenem Saft und Auguss LA MIRANDA Peso neto:185g.Fabricado por I.Schroeder KG MHD:31.12.2013 LE11SNC1 101E 15:48 A PACIFIC OCEAN:FAO 77 Client codification:4/1 GER	TUNA	<i>Katsuwonus pelamis*</i>
IA10GP1.71	Thunfisch-Stücke (Skipjack, Katsuwonus pelamis) in eigenem Saft und Auguss LA MIRANDA Peso neto:185g. Fabricado por I.Schroeder KG. MHD:31.12.2012 WESTPAZIFIK FAO 71 SCB44R 07A9R L3 JD Client codification:4/2 GER	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.72	Thunfisch in sonnenblumenöl, stücke (SKIPJACK) LA MIRANDA Peso neto:185g. Fabricado por I.Schroeder KG. MHD:31.12.2013 LE09SGC4 209D 05:23 A PACIFIC OCEAN:FAO 77 Client codification:4/3 GER	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.73	Thunfisch filets im eigenem saft und Auguss Kaiser's tengelmann STAR MARKE (Katsuwonus pelamis) Peso neto:185g. Fabricado en Ecuador MHD:31/12/2013 LE28SNL2 AB30409 14:37 B FAO 77 Ostpazifik Client codification: 5/1 GER	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.74	Thunfisch filets in Sonnenblumenöl Kaiser's tengelmann STAR MARKE (Katsuwonus pelamis) Peso neto:185g. Fabricado en Ecuador MHD:31/12/2013 LE28SGL3 PTO308 05:44 B FAO 77 Ostpazifik Client codification: 5/2 GER	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.75	Thunfisch filets in ol GUT & GÜNSTING Peso neto:185g. Product of Philippines . Pazifischer Ozean (FAO 71) SJO95 OCC 9427 Client codification: 5/3 GER	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.76	Tonno al Naturale RIO mare (BOLTON ALIMENTARIAS.p.A.) Peso neto: 80g. 31.12.2012 L9188 TH-1025 TH-1025 L918831.12.2012 UUL6TR YLBASA8 2G714 Client codification: 1 CAN IT	TUNA	<i>Thunnus albacares</i>
IA10GP1.77	Tonno al Naturale RIO mare (BOLTON ALIMENTARIAS.p.A.) Peso neto: 80g. 31.12.2012 L0103 MU DVSTF1 5018A YLSL MU DVSTF1 31.12.2010 02:55 Client codification: 4 CAN IT	TUNA	<i>Thunnus albacares</i>
IA10GP1.78	Tonno al Naturale RIO mare (BOLTON ALIMENTARIAS.p.A.) Peso neto: 80g. 31.12.2011 L9173 TH-1025 TH-1025 L9173 31.12.2011 UUL6TR YLBASA8 2FN17 Client codification: 7 CAN IT	TUNA	<i>Thunnus albacares</i>
IA10GP1.79	Insalatissime RIO mare MESSICANA AL TONNO B 09/03/2013 T 13:45 Client codification: 10 CAN IT	TUNA	<i>Thunnus albacares</i>
IA10GP1.80	Insalatissime RIO mare MESSICANA AL TONNO B 24/05/2013 T 12:41 Client codification: 13 CAN IT	TUNA	<i>Thunnus albacares</i>
IA10GP1.81	Insalatissime RIO mare MESSICANA AL TONNO B 17/05/2013 T 17:26 Client codification: 16 CAN IT	TUNA	<i>Thunnus albacares</i>
IA10GP1.82	Tuna in olive oil Prime Scelta NOSTROMO. Peso neto: 80g. Cad:31/12/2014 L-S323 LILC1B 18:00 Client codification: 19 CAN IT	TUNA	<i>No Light tuna</i>
IA10GP1.83	Tuna in olive oil Prime Scelta NOSTROMO. Peso neto: 80g. Cad:31/12/2015 L-T138 L1LF3 12:38 Client codification: 22 CAN IT	TUNA	<i>No Light tuna</i>
IA10GP1.84	Tuna in olive oil Prime Scelta NOSTROMO. Peso neto: 80g. Cad:31/12/2015 L-T077 L1LS1B J 10:02 Client codification: 25 CAN IT	TUNA	<i>No Light tuna</i>
IA10GP1.85	Tonno al naturale Prime Scelta NOSTROMO Peso neto: 80g. Cad: 31/12/2013 L T050 L1LP1A 11:14 Client codification: 28 CAN IT	TUNA	<i>Thunnus albacares</i>



IA10GP1.86	Tonno al naturale Prime Scelta NOSTROMO Peso neto: 80g. Cad: 31/12/2013 L T134 LIME1B 19:59 Client codification: 31 CAN IT	TUNA	No Light tuna
IA10GP1.87	Tonno al naturale Prime Scelta NOSTROMO Peso neto: 80g. Cad: 31/12/2013 L T138 PLM1B 06:11 Client codification: 34 CAN IT	TUNA	Thunnus albacares
IA10GP1.88	Tonno all'olio di oliva MareAperto STAR. Peso neto:80g. 14/12/2014 A 249010 220558 Client codification: 37 CAN IT	TUNA	No Light tuna
IA10GP1.89	Tonno all'olio di oliva MareAperto STAR. Peso neto:80g. 23/09/2014 A 237409 380558 Client codification: 40 CAN IT	TUNA	Thunnus obesus
IA10GP1.90	Tonno all'olio di oliva MareAperto STAR. Peso neto:80g. 21/01/2015 A 008009 150558 Client codification: 43 CAN IT	TUNA	No Light tuna
IA10GP1.91	Flaked Light Tuna DILL & LEMON CLOVER LEAF Peso neto:85g. Product of Thailand. VT104R LJ4201 A1511 APR 2012. Client codification: 1/2 CAN 4	LIGHT TUNA	No Light tuna
IA10GP1.92	Flaked Light Tuna DILL & LEMON CLOVER LEAF Peso neto:85g. Product of Thailand. VT104R LIC152 D0210 DEC 2011. Client codification: 1/1 CAN 1	LIGHT TUNA	Light tuna (Thunnus obesus)
IA10GP1.93	Flaked Light Tuna DILL & LEMON CLOVER LEAF Peso neto:85g. Product of Thailand. VT104R LJ4201 D1615 APR 2012. Client codification: 1/3 CAN 7	LIGHT TUNA	No Light tuna
IA10GP1.94	Flaked Light Tuna in water Gold seal Peso neto:170g. Product of Thailand. Importe pour CANADIAN FISHING COMPANY CJFBB I022X FE2013 Client codification: 2/1 CAN 10	LIGHT TUNA	No Light tuna
IA10GP1.95	Flaked Light Tuna in water Gold seal Peso neto:170g. Product of Thailand. Importe pour CANADIAN FISHING COMPANY CJFBB J96UW JN2012 Client codification: 2/2 CAN 13	LIGHT TUNA	No Light tuna
IA10GP1.96	Flaked Light Tuna in water Gold seal Peso neto:170g. Product of The Philippines. Importe pour CANADIAN FISHING COMPANY ASFB 10218 Best before 2013 FE 18 Client codification: 2/3 CAN 16	LIGHT TUNA	No Light tuna
IA10GP1.97	Chunk Light Tuna tongol in water President's Choice Peso neto: 170g. Product of Thailand 5122HN TCTH K Y402 092N Client codification: 3/1 CAN 19	LIGHT TUNA	No Light tuna
IA10GP1.98	Chunk Light Tuna tongol in water President's Choice Peso neto: 170g. Product of Thailand MNN4NN TCBBBAL 2MN3P 357 M Client codification: 3/2 CAN 22	LIGHT TUNA	No Light tuna
IA10GP1.99	Chunk Light Tuna tongol in water President's Choice Peso neto: 170g. Product of Thailand 5122HN TCTH K W929 Client codification: 3/3 CAN 25	LIGHT TUNA	No Light tuna
IA10GP1.100	Flaked light tuna in water Great Value Peso neto: 170g. Imported for Walmart Canada. Product of Thailand CJFBB I031W BB 13MR01 Client codification: 4/1 CAN 28 W	LIGHT TUNA	Light tuna (Thunnus obesus)
IA10GP1.101	Tuna chunks in sunflower oil SPAR. Peso neto:185g. Imported by Veropoulos bros S.A. P S4CE 494 0050 01:09 BB 31.01.2015 Client codification: 1 CAN GR	TUNA	Katsuwonus pelamis
IA10GP1.102	Tuna chunks in sunflower oil SPAR. Peso neto:185g. Imported by Veropoulos bros S.A. P S4CE 160 9254 10:11 BB 31.08.2014 Client codification: 4 CAN GR	TUNA	Katsuwonus pelamis
IA10GP1.103	Tuna chunks in sunflower oil SPAR. Peso neto:185g. Imported by Veropoulos bros S.A. P S4CE 162 9252 14:23 BB 31.08.2014 Client codification: 7 CAN GR	TUNA	Katsuwonus pelamis
IA10GP1.104	Tuna salad mexicana AB Peso neto: 170g. Produced in Thailand for ALFA BETA VASSILOPOULOS MI 2 BFO K1VFD BBE:01/2011 Client codification: 10 CAN GR	TUNA	Thunnus albacares
IA10GP1.105	Tuna salad mexicana AB Peso neto: 170g. Produced in Thailand for AB VASSILOPOULOS MI 2 BFO L6AHD BBE:05/2012 Client codification: 13 CAN GR	TUNA	Thunnus obesus
IA10GP1.106	Tuna salad mexicana AB Peso neto: 170g. Produced in Thailand for ALFA BETA VASSILOPOULOS MI 2 BFO J3Z3D BBE:03/2010 Client codification: 16 CAN GR	TUNA	Thunnus albacares
IA10GP1.107	Tónvog oe vepó CARREFOUR. Peso neto: 195g. (Yellow fin) MI 2 YFW KC2ED BBE:12/2012 Client codification: 19 CAN GR	LIGHT TUNA	Thunnus albacares

IA10GP1.108	Tóvou oe vepó CARREFOUR.Peso neto: 195g. (Yellow fin) MI 2 YSW L5FCD BBE:02/2013 Client codification: 22 CAN GR	LIGHT TUNA	<i>Thunnus obesus</i>
IA10GP1.109	Tóvou oe vepó CARREFOUR.Peso neto: 195g. (Yellow fin) MI 2 YSW L4TCD BBE:02/2013 Client codification: 25 CAN GR	LIGHT TUNA	<i>Thunnus obesus</i>
IA10GP1.110	Tuna in brine Toni Peso neto: 185g. (Yellowfin) MI 2 YFW KC1ED BBE: 12/2012 Client codification: 28 CAN GR	LIGHT TUNA	<i>Light tuna (Thunnus obesus/Thunnus albacares)</i>
IA10GP1.111	Tuna in brine Toni Peso neto: 185g. (Yellowfin) MI 2 YFW L1LED BBE: 01/2013 Client codification: 31 CAN GR	LIGHT TUNA	<i>Light tuna (Thunnus obesus/Thunnus albacares)</i>
IA10GP1.112	Tuna in brine Toni Peso neto: 185g. (Yellowfin) MI 2 YFW L33DD BBE: 03/2013 Client codification: 34 CAN GR	LIGHT TUNA	<i>No Light tuna</i>
IA10GP1.113	Tuna snacks with olives TRATA Peso neto: 375g. 07.01.2012 / LJ9097 03XX07 291441 Client codification: 37 CAN GR	TUNA	<i>Thunnus albacares</i>
IA10GP1.114	Tuna snacks with olives TRATA Peso neto: 375g. 06.04.2012 / LJ9096 02XX21 171441 Client codification: 40 CAN GR	TUNA	<i>Thunnus albacares</i>
IA10GP1.115	Tuna chunks in Olive coles. (Skipjack Tuna) Peso neto: 70. Made in Thailand S19E2COVN 4DDD9 BBE: 09.04.2015 Client codification:1/1 AUS	TUNA	<i>No Light tuna</i>
IA10GP1.116	Tuna chunks in Olive coles. (Skipjack Tuna) Peso neto: 70. Made in Thailand T13C12 K L010410 H0522 BBE: 01.04.2015 Client codification:1/2 AUS	TUNA	<i>No Light tuna</i>
IA10GP1.117	Tuna in oil Italian style SIRENA . Peso neto: 95g. Product of Thailand ZA086K B3R0A Client codification: 2/1 AUS	TUNA	<i>Thunnus albacares</i>
IA10GP1.118	Tuna in oil Italian style SIRENA . Peso neto: 95g. Product of Thailand CU58SI YLMNSEA 3AX1N Client codification: 2/2 AUS	TUNA	<i>Thunnus albacares</i>
IA10GP1.119	Tuna chunk style springwater JOHN WEST Peso neto: 95g. Made in Thailand CUL6SP ALSISE2 3BL1N Client codification: 3/1 AUS	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.120	Tuna chunk style springwater JOHN WEST Peso neto: 95g. Made in Thailand CUL6SP ALSISE2 3BK1N Client codification: 3/2 AUS	TUNA	<i>Katsuwonus pelamis</i>
IA10GP1.121	Tuna in olive oil chunk style SOLE MARE CONGA FOODS ( Yellowfin) Peso neto:95g. Packed in Thailand. MU58CG LMPSEW 3DAIH Client codification: 4/1 AUS	LIGHT TUNA	<i>No Light tuna</i>
IA10GP1.122	Tuna in olive oil chunk style SOLE MARE CONGA FOODS ( Yellowfin) Peso neto:95g. Packed in Thailand. MU58CG YLMPSEW 2MMCS Client codification: 4/2 AUS	LIGHT TUNA	<i>No Light tuna</i>
IA10GP1.123	Tuna chunks in springwater Greenseas (Skipjack) Peso neto: 95g. Packed for H.J. HEINZ CO. 02917HB U09810 Client codification: 5/1 AUS	TUNA	<i>No Light tuna</i>
IA10GP1.124	Tuna chunks in springwater Greenseas (Skipjack) Peso neto: 95g. Packed for H.J. HEINZ CO. 02917HB U09810 Client codification: 5/2 AUS	TUNA	<i>No Light tuna</i>
IA10GP1.125	Tunfisch pikant Vier Diamanten (Skipjack) Peso neto. 185g. Speziell gepackt in Thailand für PRINCES FOODS. CJFTDP V98J BBE: 31.08.2012 Client codification: 1/1 Austria 13	TUNA	<i>No Light tuna</i>
IA10GP1.126	Tunfisch pikant Vier Diamanten (Skipjack) Peso neto. 185g. FAO Nr71 CJFTDP V9DL BBE: 31.01.2013 Client codification: 1/2 Austria 4	TUNA	<i>No Light tuna</i>
IA10GP1.127	Tunfisch pikant Vier Diamanten (Skipjack) Peso neto. 185g. FAO Nr71 CJFTDP V033 BBE: 31.03.2013 Client codification: 1/3 Austria 31	TUNA	<i>No Light tuna</i>
IA10GP1.128	Thunfischstücke Pikant SEA HARVEST Wildfang Peso neto:185g. BBE:31.12.2010 ATD 9203 PHILIPPINES NO.1246 Client codification: 2/1 Austria 19	TUNA	<i>No Light tuna</i>
IA10GP1.129	Thunfischstücke Pikant SEA HARVEST Wildfang Peso neto:185g. BBE:31.12.2010 ATD 8925 PHILIPPINES NO.1246 Client codification: 2/2 Austria 22	TUNA	<i>No Light tuna</i>

IA10GP1.130	Thunfischstücke Pikant SEA HARVEST Wildfang Peso neto:185g. BBE:31.12.2010 ATD 9201 PHILIPPINES NO.1246 Client codification: 2/3 Austria 25	TUNA	No Light tuna
IA10GP1.131	Tuna fish pieces in oil SPAR BUDGET Peso neto: 80g. FTSCOA 31.01.2012 Client codification: 3/1 Austria 46	TUNA	No Light tuna
IA10GP1.132	Tuna fish pieces in oil SPAR BUDGET Peso neto: 80g. SCNOGEB P:26409 31-08-12 Client codification: 3/2 Austria 49	TUNA	No Light tuna
IA10GP1.133	Tuna fish pieces natural SPAR BUDGET Peso neto: 80g. SCBGEB 30- 06-2012 Client codification: 3/3 Austria 52	TUNA	No Light tuna
IA10GP1.134	Tonno al Naturale RIO mare Peso neto: 160g. TH-2004 L9358 31/12/2012 L9358 31/12/2012 TH-2004 Y 05:04 Client codification: 4/1 Austria 57	TUNA	Thunnus obesus
IA10GP1.135	Tonno al Naturale RIO mare Peso neto: 160g. TH-2004 L9358 31/12/2012 L9358 31/12/2012 TH-2004 Y 06:03 Client codification: 4/2 Austria 55	TUNA	Thunnus albacares
IA10GP1.136	Tonno al Naturale RIO mare Peso neto: 160g. TH-2004 L9358 31/12/2012 L9358 31/12/2012 TH-2004 Y 05:06 Client codification: 4/3 Austria 61	TUNA	Thunnus albacares
IA10GP1.137	Thunfischstücke mit gemüse in pikanter sauce JOHN WEST (Skipjack) Peso neto: 185g. Product of Thailand. FEB 2012 C2JFPQ W1028W Thailand 2004 Client codification: 5/1 Austria 7	TUNA	No Light tuna
IA10GP1.138	Thunfischstücke mit gemüse in pikanter sauce JOHN WEST (Skipjack) Peso neto: 185g. Product of Thailand. FEB 2012 C2JFPQ W1023W Thailand 2004 Client codification: 5/2 Austria 16	TUNA	No Light tuna
IA10GP1.139	Thunfischstücke mit gemüse in pikanter sauce JOHN WEST (Skipjack) Peso neto: 185g. Product of Thailand. FEB 2012 C2JFPQ W1026W Thailand 2004 Client codification: 5/3 Austria 34	TUNA	No Light tuna
IA10GP1.140	Migas de atun en tomate ALBO (Atun Blanco) Peso neto. 120g. Fabricado en España. Consumir preferentemente antes de 31.12.2015 L0070 Client codification: 1/1 SW 11	WHITE TUNA	Thunnus alalunga
IA10GP1.141	Migas de atun en tomate ALBO (Atun Blanco) Peso neto. 120g. Fabricado en España. Consumir preferentemente antes de 31.12.2015 L0106 Client codification: 1/2 SW 3	WHITE TUNA	Thunnus alalunga
IA10GP1.142	Migas de atun en tomate ALBO (Atun Blanco) Peso neto. 120g. Fabricado en España. Consumir preferentemente antes de 31.12.2015 L0104 Client codification: 1/3 SW 2	WHITE TUNA	Thunnus alalunga
IA10GP1.143	Tonno chiaro in olio di girasole Raimond Frères. Peso neto:200g. Produit de Thaïlande Emballé pour gustav Gerig AG. MNNMNN TLNNBJJ 1CW1N Client codification: 2/1 SW 6	LIGHT TUNA	No Light tuna
IA10GP1.144	Tonno chiaro in olio di girasole Raimond Frères. Peso neto:200g. Produit de Thaïlande Emballé pour Gustav Gerig AG. MNNMNN TLNNBJJ 2K8AA Client codification: 2/2 SW 7	LIGHT TUNA	No Light tuna
IA10GP1.145	Tonno chiaro in olio di girasole Raimond Frères. Peso neto:200g. Produit de Thaïlande Emballé pour Gustav Gerig AG. MNNMNN TLNNBJJ 20BAP Client codification: 2/3 SW 5	LIGHT TUNA	No Light tuna
IA10GP1.146	Tonno all'Olio di Oliva RIO mare. (Katsuwonus pelamis) Peso neto: 160g. Produit par BOLTON ALIMENTARI. Caducidad: 31.12.2014. B L0133 2014 16:04 B0X133 B0X133 16:04 Client codification: 3/1 SW	TUNA	No Light tuna
IA10GP1.147	Tonno all'Olio di Oliva RIO mare. (Katsuwonus pelamis) Peso neto: 160g. Produit par BOLTON ALIMENTARI. Caducidad: 31.12.2014. B L0116 2014 12:49 B0X116 B0X116 12:49 Client codification: 3/2 SW	TUNA	No Light tuna
IA10GP1.148	Tonno all'Olio di Oliva RIO mare. (Katsuwonus pelamis) Peso neto: 160g. Produit par BOLTON ALIMENTARI. Caducidad: 31.12.2014. B L0140 2014 07:16 B0X140 B0X140 07:16 Client codification: 3/3 SW	TUNA	No Light tuna
IA10GP1.149	Filetes de thon au naturel Almare (Katsuwonus pelamis) Peso neto 195g. Fabrique pour OTTO FRANCK IMPORT. Product of the Philippines Fancy. Caducidad:31.12.2013. SJBS6 OCC 9Y12. Client codification: 4/1 SW 10	TUNA	No Light tuna
IA10GP1.150	Tonno blanco all'olio d'oliva SUPREMO (Atun blanco) Peso neto 120g. Packed in spain for: Gottfr. 5/5/2014 LN125B 596 07:54 Client codification: 5/1 SW 4	WHITE TUNA	Thunnus alalunga
IA10GP1.151	Tuna in oil CHUNK LIGHT Chicken of the sea Peso neto:142g. Best by 01/09/13 GP9EF FCEA5 02:42 Client codification: 1/1 US	TUNA	No Light tuna

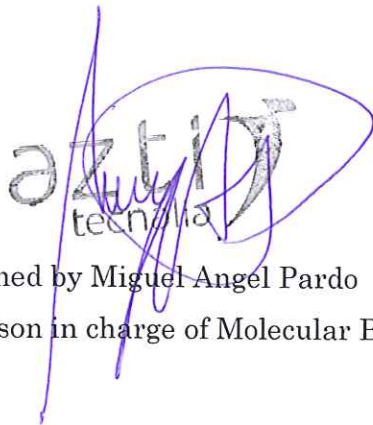
IA10GP1.152	ensalada de atun aleta amarilla con verduras DOLORES (atun aleta amarilla) Peso neto: 170g. Hecho en Mexico. Elaborado y envasado por Pescados Industrializados SA. DOL 3 12:37 ER13 14909 CAD MAY/2013 Client codification: 2/1 US	LIGHT TUNA	<i>Thunnus albacares</i>
IA10GP1.153	Atun aleta amarilla en escabeche DOLORES Peso neto: 170g. Hecho en Mexico. Elaborado y envasado por Pescados Industrializados SA DOL 6 14:18 ER13 06309 CAD MAR/2013 Client codification: 2/2 US	LIGHT TUNA	<i>Thunnus albacares</i>
IA10GP1.154	Atun aleta amarilla con jalapeño (Yellowfin) DOLORES Peso neto:170g. Product of Mexico. Distributed by: MEXILINK INC. DOL 4 10:11 ER13061 09 EXP/CAD 03/2013 Client codification: 2/3 US	LIGHT TUNA	<i>Thunnus albacares</i>
IA10GP1.155	Albacore Tun aSOLID WHITE in water Chicken of the sea Peso neto:184g. Product of Thailand. MNE4NN LLBBBGB 1C12K THE BEST TUNA JUST GOT BETTER BEST BY: 03-01-12 Client codification: 1/2 US	WHITE TUNA	<i>Thunnus alalunga</i>
IA10GP1.156	Light Tuna HOT & SPICY STYLE CENTURY. Peso neto: 180g. Imported and Distributed by: ASIAN COMMODITIES COMPANY . Product of Philippines. MKUD G0789 BBE: APR 2011 CPG35 Client codification: 3/1 US	LIGHT TUNA	No Light tuna
IA10GP1.157	Light Tuna with calamansi (Lime) CENTURY Peso neto: 180g. Imported and Distributed by: ASIAN COMMODITIES COMPANY . Product of Philippines. TWKUD G1619 BBE: JUN 2011 CPG35 Client codification: 3/2 US	LIGHT TUNA	No Light tuna
IA10GP1.158	Light Tuna adobo style CENTURY Peso neto: 180g. Imported and Distributed by: ASIAN COMMODITIES COMPANY . Product of Philippines. ADIUE G2638 BBE: SEP 2010 CPG35 Client codification: 3/3 US	LIGHT TUNA	No Light tuna
IA10GP1.159	SEASONED TUNA MEDLEY sundried tomato & basil (light tuna) BUMBLE BEE Peso neto: 142g. Product of Thailand. VT102V LH8221 E0741 BEST BY AUG 2011 Client codification: 4/1 US	LIGHT TUNA	No Light tuna
IA10GP1.160	SEASONED TUNA MEDLEY lemon & pepper (Light tuna) BUMBLE BEE. Peso neto: 142g. Product of Thailand. VT101V LH8212 E2312 BEST BY AUG 2011. Client codification: 4/2 US	LIGHT TUNA	No Light tuna
IA10GP1.161	SEASONED TUNA MEDLEYspicy thai chili (Light tuna) BUMBLE BEE. Peso neto: 142g. Product of Thailand. VT103V LJ3301 F1401 BEST BY MAR 2013. Client codification: 4/2 US	LIGHT TUNA	No Light tuna
IA10GP1.162	Lightly marinated premium chunk light tuna LEMON PEPPER. StarKist Tuna Creations Peso neto: 128g. Product of ecuador Q Best by 04.08.13 017 0098ME 10 CJP B6 13:48 Client codification: 5/1 US	LIGHT TUNA	No Light tuna
IA10GP1.163	Lightly marinated premium chunk light tuna SWEET&SPICY. Startkist Tuna creations. Peso neto: 128g. Product of ecuador Q R Best by 05.25.12 046 9145GE AC CJT B3 11:07 Client codification: 5/2 US	LIGHT TUNA	<i>Thunnus obesus</i>
IA10GP1.164	Lightly marinated premium chunk light tuna in hickory smoke flavors HICKORY SMOKED Starkist Tuna creations. Peso neto: 128g. Produc of ecuador Q Best by 03.09.13 012 0068GE AB CJH B3 09:35 Client codification: 5/3 US	LIGHT TUNA	<i>Thunnus obesus</i>
IA10GP1.165	Light tuna in water Chicken of the sea. Peso neto: 70g. Product of Thailand best by: 09-21-12 M9MA1 5ZFL1 Client codification: 1/3 US	LIGHT TUNA	No Light tuna

\* Indicates presence of a double peak in a specific diagnosis nucleotide in the electropherogram of the DNA diagnostic fragment of 176 bp that probably points out the presence of *Euthynnus* species in the sample

## OBSERVATIONS

The Technical Reports lays down the UNE-66-803-89  
Analyses were carried out in AZTI-Tecnalia

Derio, November 11, 2010



azti  
tecnalia

Signed by Miguel Angel Pardo  
Person in charge of Molecular Biology Laboratory