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Czech J. Food Sci.

**Muscolino D.,
Giarratana F., Giuffrida**

Inspective investigation on swordfish (*Xiphias gladius*) frozen slices of commerce: anatomical- histopathological findings

Czech J. Food Sci., 30 (2012): 206-210

The aim of this work was to carry out an inspective survey on frozen slices of swordfish (*Xiphias gladius*, Linneo 1758), regularly commercialised in Messina, Sicily (Italy). 402 products were checked at retail levels; the products came from four different fishing area: 59 from the Mediterranean Sea, 155 from North-East Atlantic Ocean, 139 from the Indian Ocean, and 49 from the Pacific Ocean. Fifty-one products were sampled and carefully examined macroscopically and histologically. The histological

examination was also carried out on 31 muscle portions without macroscopic alterations. 25 samples (Group A), were parasitised by larvae of *Gymnorhynchus gigas* or *Molicola (Gymnorhynchus) horridus*. The lesions described for Group B (24 samples) as well as for 31 muscle portions without macroscopic alterations were attributed, to the freezing effect. Histological and macroscopic findings on four samples suggested the presence of parasitic lesions.

Keywords:

parasite; freezer burn; Trypanorinchaе; fish

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