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Impact of gaseous ozone coupled to passive refrigeration system to maximize shelf-life and quality of four different fresh fish products

Maria Aponte, Aniello Anastasio, Raffaele Marrone, Raffaelina Mercogliano, Maria Francesca Peruzu, Nicoletta Murru



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Eledone moschata

Merluccius merluccius



Aristeus antennatus

Arnoglossus laterna



Ozone + PSR

Monitoring up to
12 days



Conventional
refrigeration

Microbial

- Total mesophilic bacteria
- Total psychrotrophic bacteria
- Enterobacteriaceae
- Photobacterium phosphoreum
- H₂S producing bacteria
- Pseudomonas spp
- Aeromonas spp
- Brochothrix spp
- Salmonella spp
- Listeria spp
- Vibrio spp

Chemical

- Moisture
- Total protein
- Total fat
- TVB-N
- TMA-N
- FFAs
- TBARs

Sensory

analysis

EFFECTIVE FISH SHELF-LIFE EXTENSION

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