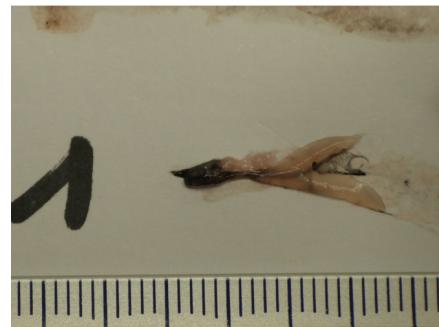


**Sardine / *Sardina pilchardus*****A - IMMATURE**

FILIFORM and flattened  
knife-shaped surface



TRANSLUCID

**B - DEVELOPING**

Gonads are filling and  
becoming opaque

NON-FLOWING  
GONADS

**C - SPAWNING**

FLOWING GONADS

OPAQUE AND  
WHITISH GONADS

**D - REGRESSION/REGENERATION**

BLOOD RESIDUE IN  
TISSUES

FLABBY, FLAT AND  
RELAXED GONADS

MLT RESIDUALS



**Sardine / *Sardina pilchardus*****E - OMITTED SPAWNING**

UNDETERMINABLE WITH THE NAKED EYE

**F - ABNORMAL**NECROSIS,  
SCLEROSIS OR  
INTERSEX

Picture	Sex	Species	First maturity size
		Sardina pilchardus	12 - 17 cm

**References/Photos :**

ICES (WKASMSF 2018 &amp; WKMATCH 2012),

IFREMER,

Quéro J-C. et Vayne J-J.2008. Les poissons de mer des pêches françaises : delachaux et niestlé, 304

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