



**International Halal and Tayyib products workshops
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Water Bath stunning

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Board Of AVS

AVS : Halal certification agency in Paris – France

AVS : About 200 employees

in more than 50 european slaughterhouses

in 8 EU countries

Stunning : texts and context

Context

- Origin : Aiming for killing easily without risks

In the past



Stunning : in the past and today

Protection of animals

- Less suffering at the time of killing

AND

Economical reasons

- Financial viability

Today





Stunning : texts and context

- ▶ European texts : Common values about the animal welfare
 - ▶ COUNCIL REGULATION (EC) No 1099/2009 of 24 September 2009 on the protection of animals at the time of killing
 - ▶ The protection of animals at the time of slaughter or killing has been covered by Community law since 1974, and was substantively reinforced by Directive 93/119/E
 - ▶ The Community seeks to promote high welfare standards in animal livestock populations worldwide, particularly in relation to trade... Such standards and recommendations should be taken into account when equivalency with Community requirements under this Regulation needs to be established for the purpose of imports.

Stunning : water bath application

- ▶ Definition in the european text :

- ▶ Depending on how they are used during the slaughtering or killing process, some **stunning methods can lead to death while avoiding pain and minimising distress or suffering** for the animals.

Other stunning methods may not lead to death and the animals may recover their consciousness or sensibility during subsequent painful procedures. Such methods should, therefore, be completed by other techniques that lead to certain death before the recovery of the animals.

It is, therefore, essential to specify which stunning methods need to be completed by a killing method. *Article 24/ introduction*

- ▶ Sens of stunning :

- ▶ 'stunning' means **any intentionally induced process which causes loss of consciousness and sensibility without pain, including any process resulting in instantaneous death;** *Article 2*

- ▶ Video

Water bath stunning : parameters and figures

- ▶ The european regulation of 2009 impose the parameters for stunning

For animals referred to in Table, waterbath stunning shall be carried out in accordance with the minimum currents laid down therein, and animals shall be exposed to that current for a minimum duration of at least four seconds.

Frequency (Hz)	Chickens	Turkeys	Ducks and geese	Quails
< 200 Hz	100 mA	250 mA	130 mA	45 mA
From 200 to 400 Hz	150 mA	400 mA	Not permitted	Not permitted
From 400 to 1 500 Hz	200 mA	400 mA	Not permitted	Not permitted

Water bath stunning : parameters and figures

- Comments on the european parameters from scientists

Raj et Al., *Recent Developments and Slaughter of Poultry*, School of Clinical Veterinary Science, University of Bristol, 2006.
Mouchonnière et Al., *The effect of Current Frequency During Waterbath Stunning on the Physical Recovery and Rate and Extent of Bleed Out in Turkeys*, Poultry Science, 1999 et 2000

Poulets	
<i>Paramètres électriques</i>	<i>% de Mortalité induite par l'électronarcose (arrêt cardiaque)</i>
50 Hz, 112 mA, 4-5 s	99% des femelles 71% des mâles
200 Hz, 111 mA, 4-5 s	41% des mâles
100 mA, 200 Hz, 1s	90%
150 mA, 200-600 Hz, 1s	72-100%
200 mA, 200-800 Hz, 1s	90%

If we compare

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Stunning : water bath, etc

- ▶ The stunning way is another way to make suffer animals at the moment of killing them : to knock out, to stun,...



islamic slaughtering

- ▶ Our texts take care about the conditions of the animals at the moment of killing : Coran And hadith talk so much about the mercy, when we have to kill animals
- ▶ Unfortunately the muslim behaviours at the moment of killing is completely opposite to our texts, to the recommandations of our Prophet



Water bath and islamic slaughtering

- ▶ As we saw some electric parameters kill the poultry. Even if we reduce the parameters, we make suffer the animals
 - ▶ The islamic slaughtering could be a good solution if we invest our energy to be closer to the perfect islamic way
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