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OXETHAZAINE

The *World Anti-Doping Agency* wishes to draw the attention of the Laboratories to the following issue that may affect Laboratory operations. This pertains, in particular, to the detection of the prohibited stimulants **phentermine** and **mephentermine** in urine *Samples*, which may be found as minor *Metabolites* of the permitted drug **oxethazaine** (Mucaïne[®], Stoin), a topical anaesthetic prescribed for the treatment of acute and chronic gastritis and duodenitis¹.

Therefore, it is recommended that prior to reporting a result for phentermine and/or mephentermine as an *Adverse Analytical Finding*, Laboratories should take appropriate steps to evaluate whether the finding is the result of the permitted administration of oxethazaine:

1. Check the Sample Doping Control Form (DCF) for a declaration of use of oxethazaine;
2. Test for the presence of oxethazaine major *Metabolites*, namely **β-hydroxyphentermine** and **β-hydroxymephentermine**. Both of these *Metabolites* are detected in much higher concentrations than phentermine and/or mephentermine following the administration of oxethazaine (Figure 1)¹.

If condition 2 is met, the Laboratory should report the result as a Negative Finding and include a comment that phentermine and/or mephentermine were detected but were determined to be the result of the administration of the permitted substance, oxethazaine.

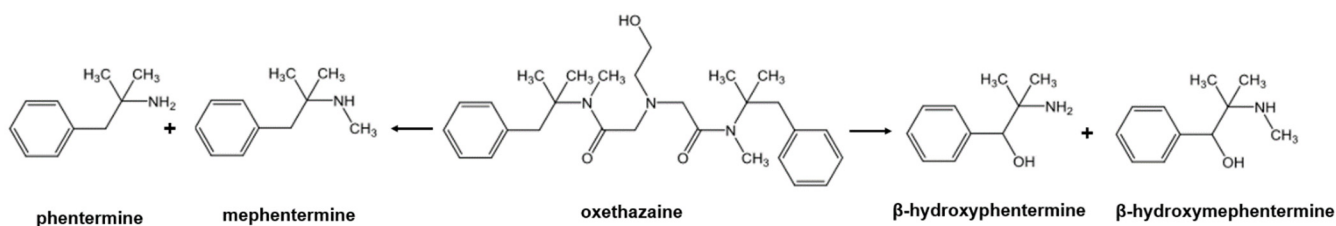


Fig.1 Metabolism of oxethazaine (adapted from ¹).

Should you have any further questions, please do not hesitate to contact the *WADA Science Department*.

¹ Sigmund G, Seinsch I and Schänzer W. Detection of Phentermine and Phentermine Derivatives as Metabolites of Oxethazaine. In: W Schänzer, H Geyer, A Gotzmann, U Mareck- Engelke (eds). *Recent Advances in doping analysis* (6). Sport und Buch Strauß, Köln, 483- 487, 1999