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Reintroduction of processed animal proteins in feed: filled gaps and gaps to be filled

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In 2010, the second TSE Roadmap set down the conditions to be met for a partial reintroduction of processed animal proteins (PAPs) in feed in the European Union. Progresses in detection methods have allowed meeting the prescribed conditions allowing a partial lift of the total feed ban. Major improvements in the light microscopic method and the PCR were achieved. Nevertheless none of the method is able on its own to fit all requirements for the accurate identification of prohibited ingredients from animal origin method lead to propose a combinatory approach on which official controls can rely for a better detection and identification of animal constituents in feed. The combination models proposed varies according to the final destination of the feed or feed ingredients. Nonetheless the likely reintroduction of PAPs will be a source of new challenges in accurate identification of certain feed ingredients possibly interfering with light microscopy and PCR. The emergence of new concerns supports the necessity of developing complementary techniques for disclosing contaminations. The lecture will present the recent advances in method combination as

regards PAPs detection and shed light on possible interferences with authorized products from animal origins. Some study cases will be presented and discussed in terms of gaps to be filled.

Keywords processed animal proteins;feed ban;combination of methods;future challenges