Index to JECFA evaluations of ractopamine

Background on JECFA

The Joint Expert Committee for Food Additives (JECFA) is an expert body assembled by the WHO and FAO. The expert participants do not represent their nation, region, or home institution. They must also be free of any conflict of interest with the compounds they evaluate. There is a high standard of expertise required for participants to be either regular JECFA panel members or when recruited to participate in the evaluation of a specific compound. WHO enlists scientist to consider toxicology and the FAO enlists scientists to evaluate residues. The JECFA evaluations are authoritative reviews of all available information concerning each compound and each evaluation represents many man-months of preparation. Calls for experts may be found at http://www.fao.org/ag/agn/agns//jecfa_experts_en.asp and http://www.who.int/foodsafety/chem/jecfa/experts/en/index.html

JECFA produces three major types of reports concerning veterinary drugs. These are:

- **Toxicology monographs**; a thorough initial or updated review of the available studies on the effects of the compound and any metabolic products of the compoound. These reports recommend the acceptable daily intakes (ADI). These are published by the WHO in the Food Additive Series.
  http://www.who.int/ipcs/publications/jecfa/monographs/en/index.html
  A searchable database for monographs for specific compounds may be found at:
  http://www.inchem.org/

- **Residue monographs**: a thorough initial or updated review of the levels of a compound and any metabolites that may be found as residues in the tissues of an organism given the compound. These consider the rate at which the compound is eliminated from the organs over time after withdrawal. These monographs may also contain the dietary intake estimates for comparison to the ADI. These are published by FAO as FAO JECFA Monographs or FAO Food and Nutrition papers.
  http://www.fao.org/ag/agn/agns//jecfa_output_en.asp
  A searchable database for residue evaluations of veterinary drugs may be found at
  http://www.fao.org/ag/agn/jecfa-vetdrugs/search.html

- **Meeting Reports**: summarize the significant information from both the toxicology and residue studies and provide the overall results and any recommendations of JECFA. They are published by the WHO as the WHO Technical Report Series.
  http://www.who.int/ipcs/publications/jecfa/reports/en/index.html
  A searchable database that provides links to toxicology monographs and meeting reports may be found at: http://apps.who.int/ipsc/database/evaluations/search.aspx

JECFA Ractopamine reports.

Ractopamine has been evaluated at the 40th, 62nd, 66th, JECFA meetings, and by a special review in 2010. The most recent reports are listed below. Those reports provide references to earlier evaluations.

Toxicology monograph from 62nd JECFA meeting (2004) JECFA (ADI determination)
WHO Food Additive Series:53 (2004)
http://www.inchem.org/documents/jecfa/jecmono/v53je08.htm

Primary residue evaluation from 62nd JECFA meeting (2004)
FAO Food and Nutrition Paper 41/16, 2004. ftp://ftp.fao.org/ag/agn/jecfa/vetdrug/2-2006-ractopamine_hydrochloride.pdf

Residue addendum from 66th JECFA meeting (2006)
FAO JECFA Monographs 2, 2006
ftp://ftp.fao.org/docrep/fao/009/a0652e/a0652e.pdf

Residue re-evaluation considering data submitted by China (2010)
FAO JECFA Monographs 9, 2010 ftp://ftp.fao.org/ag/agn/jecfa/vetdrug/9-2010-ractopamine.pdf

JECFA meeting reports (Summary reports and dietary intake estimation) with evaluation of ractopamine and recommended maximum residue levels:

(2004) WHO technical Report Series 925, Evaluation of Certain Veterinary Drug Residues in Foods, Sixty-second report of the Joint FAO/WHO Expert Committee on Food Additives. http://whqlibdoc.who.int/trs/WHO_TRS_925.pdf

(2006) WHO technical Report Series 939, Evaluation of Certain Veterinary Drug Residues in Foods, Sixty-sixth report of the Joint FAO/WHO Expert Committee on Food Additives.http://whqlibdoc.who.int/publications/2006/9241209399_eng.pdf

Other publically available reports

US FDA (evaluation of ractopamine for swine) "Original New Animal Drug Application, NADA 140-863, Ractopamine hydrochloride (PAYLEAN®), For increased rate of weight gain, improved feed efficiency, and increased carcass leanness in finishing swine fed a complete ration containing at least 16% crude protein from 150 lb (68 kg) to 240 lb (109 kg) body weight". http://www.fda.gov/downloads/AnimalVeterinary/Products/ApprovedAnimalDrugProducts/FOIADrugSummaries/ucm049990.pdf

US FDA (evaluation of ractopamine for beef) "Original New Animal Drug Application, NADA 141- 221 Ractopamine Hydrochloride (OPTAFLEXX™ 45) Type A Medicated Article For Beef Cattle".
http://www.fda.gov/downloads/AnimalVeterinary/Products/ApprovedAnimalDrugProducts/FOIADrugSummaries/ucm118030.pdf

Australia, (Summary of findings on racdtopamine) Australian Pesticides and Veterinary Medicine Authority Gazette APVMA7, 1 July 2003 - Page 20
http://www.apvma.gov.au/publications/gazette/2003/07/gazette0307p20.php