

UNITED STATES DEPARTMENT OF AGRICULTURE
 FOOD SAFETY AND INSPECTION SERVICE
 WASHINGTON, DC

FSIS DIRECTIVE

7120.1
Rev. 47

10/18/18

SAFE AND SUITABLE INGREDIENTS USED IN THE PRODUCTION OF MEAT, POULTRY, AND EGG PRODUCTS

I. PURPOSE

This directive provides inspection program personnel (IPP) with the latest up-dates to the list of substances that may be used in the production of meat, poultry, and egg products. This directive will no longer list all the approved substances and On-Line Reprocessing (OLR) and Off-Line Reprocessing (OFLR) Antimicrobial Intervention Systems. Instead, it will only issue the latest changes. The complete [listing of approved substances and OLR and OFLR Antimicrobial Intervention Systems](#) is available at the above link. FSIS is also providing a [Web based look-up table](#) to search ingredients by name.

II. CANCELLATION

FSIS Directive 7120.1, Revision 46, *Safe and Suitable Ingredients Used in the Production of Meat, Poultry, and Egg Products*, 03/19/18

III. LATEST UP-DATE TO THE LIST OF SUBSTANCES

Table 1: Summary of Updates to list of substances

1) The use of the substances is consistent with FDA's labeling definition of a processing aid., 2) Generally Recognized as Safe (GRAS), 3) Secondary Direct Food Additive, 4) Direct Food Additive, 5) Color Additive, 6) Food Contact Substance (FCS) subject to food contact notifications (FCN) is defined as any substance that is intended for use as a component of materials used in manufacturing, packing, packaging, transporting, or holding food if such use is not intended to have any technical effect in such food.				
Substance	Intended Use of Product	Amount	REFERENCE	LABELING REQUIREMENTS
Antimicrobial				
An aqueous mixture of peroxyacetic acid (PAA), hydrogen peroxide (H2O2), acetic acid, optional sulfuric acid and 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP)	(1) process water or ice, used for washing, rinsing, or cooling whole or cut meat, including carcasses, parts, trim and organs (2) process water applied as spray, wash, rinse, dip, chiller water, low-temperature (e.g. less than 40°F) immersion baths, or scald water for whole	(1) The level not to exceed 400 ppm peroxyacetic acid (PAA), 100 ppm hydrogen peroxide, and 5 ppm HEDP; (2) The level not to exceed 2000 ppm PAA, 500 ppm hydrogen peroxide, and 27 ppm HEDP;	FCN 1693	None under the accepted conditions of use (1)

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	trim and organs (3) process water or ice used for washing, rinsing, or cooling of	(3) The level not to exceed 230 ppm PAA, 57 ppm hydrogen peroxide, and 3 ppm HEDP; All applications pH: 1.0-7.0; spray, rinse, wash, dip contact/dwell time: 1-120 seconds; spray pressure: 5-100 psi; chiller water dwell time: 10 seconds-120 minutes.		
Bacteriophage preparation (containing two E. Coli O157-specific phage preparations)	Beef carcasses, primals, subprimal cuts, and trimmings	Spray, mist, or wash application (or a mix of these application methods)	GRAS Notice No. 00757	None under the accepted conditions of use (1)
Salmonella bacteriophage preparation containing bacterial monophages FO1a and S16	(1) Applied at prechill and postchill locations on raw poultry carcasses and parts (2) Red meat (pork and beef) carcasses, parts, trim or ground	Salmonella bacteriophage preparation containing bacterial monophages FO1a and S16 up to 10 ⁸ PFU/g	GRAS Notice No. 000468	None under the accepted conditions of use (1)
Salmonella bacteriophage preparation containing bacterial monophages BP-63 and LVR 16-A	Applied to egg products and the surfaces of ready to eat meat and poultry products, and meat and poultry carcasses	Salmonella bacteriophage preparation containing the bacterial monophages BP-63 and LVR 16-A at up to 10 ⁸ PFU/g	GRAS Notice No. 000752	None under the accepted conditions of use (1)
Online Reprocessing Systems				
Approved OLR System	Company Name/Distributor	Substance (antimicrobial) and if applicable, FDA's Food Contact Notification (FCN)	PPM Concentration (range), pH, contact time, temperature (if applicable)	Method of Application (e.g., Spray, Wash, Inside Outside Bird Washer (IOBW) with or without brushes)
Pearl OX	Xgenex	An aqueous mixture of peroxyacetic acid (PAA), hydrogen	An aqueous mixture not exceeding 2000 ppm peroxyacetic	Spray

		peroxide (HP), acetic acid, 1-hydroxyethylidene-1, 1- diphosphonic acid (HEDP) and optionally, sulfuric acid (FCN 1638).	acid (PAA), 950 ppm hydrogen peroxide (HP), 113 ppm acetic acid, 1-hydroxyethylidene-1, 1- diphosphonic acid (HEDP) and optionally, sulfuric acid; contact time: one (1) – 120 seconds; pH 2.0 – 8.0; pressure: 5 – 170 psi, temperature: 32° to 99°F	
PeroxyChem LLC, formerly Peroxygens, FMC	Spectrum™/ Spectrum 2000™	An aqueous mixture of peroxyacetic acid (PAA), hydrogen peroxide, acetic acid, and 1-hydroxyethylidene-1, 1- diphosphonic acid (HEDP). FCN 880	Spray/ IOBW brushes: An aqueous mixture of PAA between 18-2000 ppm and 136 ppm 1-hydroxyethylidene-1,1- diphosphonic acid (HEDP) with a contact time of 1-30 seconds. Dip: An aqueous mixture of PAA between 100-2000 ppm and 136 ppm 1-hydroxyethylidene-1,1- diphosphonic acid (HEDP) with a contact time of up to 25 seconds	Spray, IOBW/ Brushes or dip tank

VI. QUESTIONS

A. Refer questions regarding this directive to the Office of Policy and Program Development through [askFSIS](#) or by telephone at 1-800-233-3935. When submitting a question, use the Submit a Question tab, and enter the following information in the fields provided:

Subject Field: Enter Directive 7120.1
Question Field: Enter question with as much detail as possible.
Product Field: Select General Inspection Policy from the drop-down menu.
Category Field: Select New Technology as the main category then select either Ingredients or Processing Aides from the drop-down menu.
Policy Arena: Select Domestic (U.S.) Only from the drop-down menu.

B. For labeling questions enter the following information:

Subject Field: Enter Ingredient Labeling
Question Field: Enter question with as much detail as possible.
Product Field: Select Labeling from the drop-down menu.
Category Field: Select Ingredients/Additives or other applicable category from the drop-down menu.
Policy Arena: Select Domestic (U.S.) Only from the drop-down menu.

When all fields are complete, press **Continue** and at the next screen press **Finish Submitting Question**.

NOTE: Refer to [FSIS Directive 5620.1](#), *Using askFSIS*, for additional information on submitting questions.

A handwritten signature in black ink that reads "Robert J. Wagner". The signature is written in a cursive style with a large initial "R".

Assistant Administrator
Office of Policy and Program Development