

FSIS received and reviewed the following new technologies for which FSIS has "no objection" to use in FSIS establishments. Please amend the [New Technologies](#) to include the following:

<b>New Technology Table</b>		
<b>Log Number</b>	<b>Company Name</b>	<b>Summary of the Notification/Protocol Regulatory Waiver (if applicable)</b>
15-ING-1066-N-A	World Food Processing, LLC	Pea protein as a binder and flavoring agent in various whole muscle and comminuted meat and poultry products, and ready-to-eat (RTE) meat and poultry products where binders are permitted at a level not exceeding the product's specific standard of identity limits and not more than 7% of the total product formulation. (GRN 581).
18-ING-2178-N-A	Corbion	High Oleic Algal Oil derived from <i>Prototheca moriformis</i> to partially replace other edible oils (fats) used in the production of meat and poultry-containing products. (GRN 754).
2018-6-ING	Grain Millers	Oat Bran, oat Fiber as a binder in intact and comminuted meat and poultry products where binders are permitted.
2018-13-ING	Ingredion Incorporated and Shandong Jianyuan Bioengineering Company Limited	Pea protein as a binder in comminuted and whole muscle meat and poultry products at levels of up to 3% where the standard of identity permits (GRN 803)
2018-54-ING	Intralytix	EcoShield PXTM (GRN 834), a phage preparation specific to Shiga toxin-producing <i>Escherichia coli</i> (STEC) as an antimicrobial treatment of intact meat, intact poultry, and Siluriformes fish at the rate of up to 1 x 10 <sup>8</sup> plaque forming units (PFU)/gram of treated food.
2019-35-ING	Diversey, Inc.	An aqueous peroxyacetic acid (PAA) mixture to be used in the processing of meat and poultry in accordance (FCN 1936).
2019-39-ING	NOMAD Bioscience GmbH	SALMOCIN, bacteriocin preparations specific to <i>Salmonella</i> as an antimicrobial treatment of intact meat, intact poultry,

		and egg products at the rate of 0.1-3 mg per kg of treated food (GRN 824)
2019-44-ING	Intralytix, Inc.	GRN 435 for the use of a bacteriophage preparation ( <i>Salmonella</i> targeted) for use on raw poultry prior to grinding and ready-to-eat (RTE) poultry products prior to slicing; RTE and raw red meat prior to grinding.
2019-46-ING	Omnilytics, Inc.	An aqueous preparation containing three bacterial monophages (MLF4, OLB35 and OLB145) to be used in red meat carcasses, parts, and trim (prior to grinding) (GRN 827)
2019-65-ING	Fermentalg	Use of DHA 350 as an alternative edible oil in the production of meat and poultry products. The oil is required to be listed by its common or usual name in the ingredients statement.
2019-66-ING	Fermentalg	Use of DHA 550 as an alternative edible oil in the production of meat and poultry products. The oil is required to be listed by its common or usual name in the ingredients statement.
2019-89-OLR	Harcros Chemicals, Inc	FCN 1960 is an aqueous mixture of peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and optionally sulfuric acid and/or dipicolinic acid (DPA) for use as an on-line reprocessing system.
2019-90-OFLR	Harcros Chemicals, Inc	FCN 1960 is an aqueous mixture of peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and optionally sulfuric acid and/or dipicolinic acid (DPA) for use as an off-line reprocessing system.
2019-118-OFLR	Kroff Tech	KF 27145 is an aqueous mixture of peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and optionally sulfuric acid for use as an off-line reprocessing system. (FCN 1693)
2019-124-ING	Chemital	A blend of sodium acetate, salt, nisin preparation, and malic acid for use as an antimicrobial in cooked meat and poultry products.

2019-125-ING	Harcros Chemicals, Inc	An aqueous mixture of peroxyacetic acid PAA FCN 1960 as an antimicrobial agent used in the production and preparation of meat, poultry, processed and pre-formed meat and poultry products.
2019-126-ING	Corbion	Use of a solution of Lactic Acid at concentrations not to exceed 10 percent (w/w) to reduce bacterial contamination on beef carcasses and heads.
2020-130-OLR	Diversey, Inc	DiverContact P16 and DiverContact XP (FCN 1936), an aqueous mixture containing peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), dipicolinic acid (DPA) and optionally sulfuric acid, for use as an online reprocessing system.
2020-131-OFLR	Diversey, Inc.	DiverContact P16 and DiverContact XP (FCN 1936), an aqueous mixture containing peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), dipicolinic acid (DPA) and optionally sulfuric acid, for use as an off-line reprocessing system.
2020-154-ING	Chemital	A blend of sodium acetate, malic acid, and nisin preparation for use as an antimicrobial in cooked meat and poultry products.
2020-156-ING	BASF Corporation	Alkyl Polyglycosides (APG) for use in wash water for meat and poultry (GRN 237 supplemented).
2020-159-OLR	Brainerd Chemical Company	Terrastat 15/ Terrastat 22, an aqueous mixture containing peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and dipicolinic acid (DPA) (FCN 1823), for use as an on-line reprocessing system.
2020-160-OLR	Brainerd Chemical Company	OxypHresh/ OxypHresh 22, an aqueous mixture containing peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and dipicolinic acid (DPA) (FCN 1823), for use as an on-line reprocessing system.
2020-161-OLR	Brainerd Chemical Company	Promoat/ Promoat XL, an aqueous mixture containing peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-

		diphosphonic acid (HEDP), and dipicolinic acid (DPA) (FCN 1823), for use as an on-line reprocessing system.
2020-162-OLR	Brainerd Chemical Company	BirkoSide 15/BirkoSide 22, an aqueous mixture containing peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and dipicolinic acid (DPA) (FCN 1823), for use as an on-line reprocessing system.
2020-163-OFLR	Brainerd Chemical Company	Terrastat 15/ Terrastat 22, an aqueous mixture containing peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and dipicolinic acid (DPA) (FCN 1823) for use as an off-line reprocessing system.
2020-164-OFLR	Brainerd Chemical Company	OxypHresh/ OxypHresh 22, an aqueous mixture containing peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and dipicolinic acid (DPA) (FCN 1823) for use as an off-line reprocessing system.
2020-165-OFLR	Brainerd Chemical Company	Promoat/ Promoat XL, an aqueous mixture containing peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and dipicolinic acid (DPA) (FCN 1823) for use as an off-line reprocessing system.
2020-166-OFLR	Brainerd Chemical Company	BirkoSide 15/ BirkoSide 22, an aqueous mixture containing peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and dipicolinic acid (DPA) (FCN 1823) for use as an off-line reprocessing system.
2020-167-OLR	Brainerd Chemical Company	ChemSan T22, an aqueous mixture containing peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and dipicolinic acid (DPA) (FCN 1823), for use as an on-line reprocessing system.

2020-168-OFLR	Brainerd Chemical Company	ChemSan T22, an aqueous mixture containing peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and dipicolinic acid (DPA) (FCN 1823) for use as an off-line reprocessing system.
2020-169-OLR	Albemarle Corporation	AviBrom (DBDMH bromine) for on-line reprocessing in any FSIS poultry establishment between 60 and 450 ppm.
2020-170-OFLR	Albemarle Corporation	AviBrom (DBDMH bromine) for off-line reprocessing in any FSIS poultry establishment between 60 and 450 ppm.
2020-171-OLR	Safe Foods Corporation	CitriLow Plus™ for use in on-line reprocessing.
2020-172-OFLR	Safe Foods Corporation	CitriLow Plus™ for use in off-line reprocessing.
2020-180-OLR	BioSafe Systems, LLC	SaniDateFD Plus is an aqueous mixture of peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, and 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and water as an on-line reprocessing (OLR) system.
2020-181-OFLR	BioSafe Systems, LLC	SaniDateFD Plus is an aqueous mixture of peroxyacetic acid (PAA), hydrogen peroxide (HP), acetic acid, and 1-hydroxyethylidene-1,1-diphosphonic acid (HEDP), and water as an off-line reprocessing system (OFLR).
2020-184-ING	Empirical Foods (Formerly BPI)	Use of anhydrous ammonia as an antimicrobial agent in ground beef which is subsequently quick chilled to 28 degrees Fahrenheit and mechanically 'stressed'.
2020-190-ING	Bavaria Corporation	A blend of salt, vinegar, lemon extract, and grapefruit extract for use as an antimicrobial agent in ground beef.
2020-191-ING	Bavaria Corporation	Use of a blend of dextrose, vinegar, salt, flavorings, and olive oil as an antimicrobial agent in ready-to-eat (RTE) meat products.
2020-230-ING	Johnsonville, LLC	Carbon monoxide gas part of a modified atmosphere packaging system to extend the shelf life and stabilize the color of red meat sausage, poultry sausages and sausages made with a red meat/poultry blend (update to labeling requirements).

**Also Available:**

- [Summary Table of No-Objection Letters Issued for Non-O157 STEC Test Methods](#)
- [Complete Listing of New Technologies](#)

For those interested in using a new technology, direct your request through [askFSIS](#) or you may contact the Risk Management and Innovations Management Staff directly at:

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