Innovative Foods Part 1: Who Has Jurisdiction?

FDLI Food Advertising, Labeling, and Litigation Conference September 26, 2018



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Evolving Food System



Cell-Based Meat



The Regulatory Conversation: Who, What, Why?



Regulatory Agencies: FDA or USDA, or both?



- Regulates "food" and food ingredients under Federal Food, Drug, and Cosmetic Act
- Determines safety of new food ingredients including in plantbased foods, seafood, and meat and poultry products
- Regulates food products of biotechnology including GE animals
- Assessed safety of animal cloning and labeling
- Regulates live food animals
- Regulates safety and labeling of "non-specified" red meats (e.g., bison and venison) and "non-specified" birds (e.g., wild turkey) and products with minimal amounts of meat/poultry (e.g., multi-ingredient foods containing < 3% raw meat/poultry or < 2% cooked meat/poultry
- Regulates microbial, algal, and fungal cells generated by largescale culture and used as direct food ingredients; animal cell culture technology in therapeutic settings; and processing, manufacture, and packaging of seafood (except catfish)

Regulatory Agencies: FDA or USDA, or both?



- Regulates "meat and meat food products" and "poultry and poultry products" under Federal Meat Inspection Act and Poultry Products Inspection Act except:
 - multi-ingredient foods containing < 3% raw meat/poultry or
 < 2% cooked meat/poultry
 - non-specified meats or birds
- Regulates establishments that slaughter and/or process meat and poultry products
 - Processing activities include mixing, grinding, fabrication, preblending, patty formation, stuffing, mechanical tenderization, cooking/smoking, etc.
- Determines safety, wholesomeness, and accuracy of labeling
- Determines suitability of ingredients used in meat and poultry products
- Reviews other new technologies for safety and suitability

Meat

• Meat



"The part of the muscle of any cattle, sheep, swine, or goats that is skeletal or that is found in the tongue, diaphragm, heart, or esophagus, with or without the accompanying and overlying fat, and the portions of bone (in bone-in product such as T-bone or porterhouse steak), skin, sinew, nerve, and blood vessels that normally accompany the muscle tissue and that are not separated from it in the process of dressing." 9 CFR § 301.2 (FMIA regulations)

Meat food product

- "[A]ny product capable of use as human food which is made wholly or in part from any meat or other portion of the carcass of any cattle, sheep, swine, or goats, excepting products which contain meat or other portions of such carcasses only in a relatively small proportion or historically have not been considered by consumers as products of the meat food industry, and which are exempted from definition as a meat food product by the Secretary under such conditions as he may prescribe to assure that the meat or other portions of such carcasses contained in such product are not adulterated and that such products are not represented as meat food products." 21 U.S.C. § 601(j) (FMIA)

Poultry



- "[A]ny domesticated bird, whether live or dead." 21 U.S.C. 453 (PPIA)
- "Any domesticated bird (chickens, turkeys, ducks, geese, guineas, ratites, or squabs, also termed young pigeons from one to about thirty days of age), whether live or dead." 9 CFR 381.1 (PPIA regulations)
- Poultry product

Poultry

- "[A]ny poultry carcass or part thereof; or any product which is made wholly or in part from any poultry carcass or part thereof, excepting those exempted from definition as a poultry product in § 381.15. Except where the context requires otherwise (e.g., in paragraph (b)(42) of this section), this term is limited to articles capable of use as human food."
- Poultry food product
 - "Any product capable of use as human food which is made in part from any poultry carcass or part thereof, excepting those exempted from definition as a poultry product in § 381.15." 9 CFR 381.1

Regulatory Agencies: FDA or USDA, or both?

Current Framework & Key Precedents

MOU 225-00-2000

MEMORANDUM OF UNDERSTANDING

Between The

FOOD SAFETY AND INSPECTION SERVICE UNITED STATES DEPARTMENT OF AGRICULTURE

And The

FOOD AND DRUG ADMINISTRATION UNITED STATES DEPARTMENT OF HEALTH AND HUMAN SERVICES

Regarding the Listing or Approval of Food Ingredients and Sources of Radiation Used in the Production of Meat and Poultry Products

I. PURPOSE

This agreement establishes the working relationship to be followed by FSIS and FDA in responding to requests for the sanctioning of the use of food ingredients and sources of radiation subject to regulation by the FDA and intended for use in the production of meat and meat food products (hereinafter known collectively as meat products) and poultry products regulated by FSIS.

More than 25% of GRAS notices filed with FDA have involved substances in products in meat and poultry products, and have undergone concurrent evaluation by USDA/FSIS

New ingredients in meat or poultry

- FDA evaluates safety and USDA consults on suitability
- Stems from FDA's "food additive" authority
- For ingredients of biological origin, evaluation is primarily a comparative assessment
- Finished meat & poultry product labeling
 - Typically regulated by USDA
- Other relevant precedents
 - FDA evaluated safety and labeling of food from animal clones and progeny; USDA/FSIS deferred to FDA determination and regulates finished products
 - Concurrent evaluation of beef, poultry, and pork protein ingredients (e.g., GRN 168, 313, 314)
 - Congress delegated authority over catfish exclusively

What Will Be Regulated and By Whom?



Evolving Regulatory Landscape – FDA



- Held a public meeting on July 12 regarding "Foods Produced Using Animal Cell Culture Technology" and opened docket for public comments
- Indicated that it has jurisdiction over products "intended to resemble conventional meat, poultry, and seafood" under its broad oversight of "food" and "articles used for components" of food
- Emphasized that it has **unique and relevant expertise** based upon its evaluation of:
 - Microbial, algal, and fungal cells generated by large-scale culture and used as direct food ingredients
 - Foods derived from bioengineered crops
 - Cell culture technology in therapeutic settings
- Focus on safety, but did leave door open for labeling

Questions Posed by FDA

Written comments due to FDA by September 25, 2018

Primary focus is safety, but FDA welcomes comments on other issues, including naming

- What considerations specific to animal cell culture technology would be appropriate to include in evaluation of food produced by this method of manufacture?
- What kinds of variations in manufacturing methods would be relevant to safety for foods produced by animal cell culture technology?
- What kinds of substances would be used in the manufacture of foods produced using animal cell culture technology and what considerations would be appropriate in evaluating the safety of these uses?
- Are the potential hazards associated with production of foods using animal cell culture technology different from those associated with traditional food production/processing? Is there a need for unique control measures to address potential hazards associated with production of foods using animal cell culture technology?

Evolving Regulatory Landscape – USDA



Both FDA and the Department of Agriculture have signaled they want to oversee the burgeoning sector of labgrown or cultured products. | John Shinkle/POLITICO

Welcome to the turf battle over lab-grown meat

By HELENA BOTTEMILLER EVICH | 06/15/2018 06:12 PM EDT

The FDA on Friday declared it has jurisdiction over lab-grown meat — a surprising move that marks the beginning of a high-stakes battle over which part of the government should regulate the buzzy products.

Both FDA and the Department of Agriculture have signaled they want to oversee the burgeoning sector of lab-grown or cultured products, which take animal cells and multiply

QUARTZ

OOD AS POLITICS

US food regulators are fighting over who gets to oversee cell-cultured meat

InsideHealthPolicy

An Inside Washington news service

DAILY NEWS

FDA Official: Agency Has Prepared For Cultured Meat Oversight For Years

July 12, 2018

"FDA's claim of jurisdiction over food — and anything used in food — is so overly broad that it implies that USDA doesn't have a role. . . According to federal law, **meat and poultry inspections are the sole purview of USDA, so we expect any product marketed as 'meat' to be USDA's responsibility**. We look forward to working with FDA as we engage the public on this issue." – USDA Spokesperson

- USDA not officially involved in FDA public meeting
- Strong interest by industry groups and certain political leaders for USDA involvement, particularly with respect to labeling

Evolving Regulatory Landscape – FDA & USDA

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ROM subi itted to Dor tant Secreta tant Secreta poulti	tial hazards, oversight consideration	SDA's Food Safety and Inspection Service and the FDA, will focus on the ns, and labeling of cell cultured food products derived from livestock and
FURTHER INFO	work for these new products," said	from the agricultural industry and consumers as we consider the regulator Secretary Perdue. "American farmers and ranchers feed the world, but as how to inspect and regulate to ensure food safety, regardless of the
LEMENTANT		ure the safety of our nation's food supply and the critical role science- e to fostering innovation. Recent advances in animal cell cultured food
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based produ at US collea The f	cts present many important and tim DA," said Commissioner Gottlieb. "I gues as part of an open public diale rst day of the meeting will focus prii	ogue regarding these products." marily on the potential hazards that need to be controlled for the safe oducts and oversight considerations by regulatory agencies. The second

- Joint public meeting scheduled for Oct. 23 and 24 regarding "Use of animal cell culture technology to develop products derived from livestock and poultry" and opened docket for public comments (until Nov. 26)
- FDA Advisory Committee meeting before FDA Science Board on Oct. 22
- Comes on heels of joint letter from Memphis Meats and NAMI to White House proposing joint FDA-USDA regulatory pathway

Focus on safety and labeling

"American farmers and ranchers feed the world, but as technology advances, we must consider how to inspect and regulate to ensure food safety, regardless of the production method." ~ Secretary Purdue

"Recent advances in animal cell cultured food products present many important and timely technical and regulatory considerations for the FDA and our partners at USDA." ~ Commissioner Gottlieb

Joint FDA-USDA Meeting: Safety Considerations

- Most **significant sources of potential hazards** for cell-based meat and poultry v. traditionally produced counterparts and how are they similar and different?
- Strategies to ensure that all potential hazards are identified and appropriately controlled
 - Is there an effective and efficient application of pre-market programs to ensure the safety of foods produced by animal cell culture?
 - What type and frequency of inspection will be appropriate for various stages of the manufacture of these products?
 - What type and frequency of inspection will be appropriate for products that combine cell cultured food products and other ingredients?
- FSIS and FDA are actively working to reduce the duplicative and inefficient regulation of establishments and products under both agencies' jurisdiction.
 - How could this be done for products of animal cell culture derived from livestock and poultry?

Joint FDA-USDA Meeting: Labeling

- What factors should be considered in the labeling of products of animal cell culture?
 - Should standards of identity or criteria for statements of identity be established for these products to ensure that product names are truthful, not misleading, and sufficiently differentiate cell cultured products from traditional products?
 - Should the methods by which animal cell cultured products are produced (i.e., the culturing process) be considered required information for purposes of labeling?
 - If so, what factors should be considered in accurately describing the production methods?
 - Should the source of the animal cells (i.e., the species from which the cell line was initiated) be considered required information for the purposes of labeling?
 - What factors should be considered in potentially allowing health, safety, and other claims in the marketing of animal cell cultured products?
 - How should products containing both animal cell cultured products and traditional meat and poultry products be labeled?

Plant-Based Foods



Recent Developments

- Congressional letter to FDA (December 2016)
 - States that use of the term "milk" for plant-based products is misleading, harmful to dairy industry, and violation of milk standard of identity, which defines milk in relevant part as "lacteal secretion" obtained from dairy cows
- DAIRY PRIDE Act (January 2017)
 - Would have required non-dairy products made from nuts, seeds, plants and algae to no longer be labeled with dairy terms such as milk, yogurt or cheese
 - No action taken
- GFI submitted petition to FDA (March 2017)
 - Requested issuance of regulation clarifying that "new foods may be named by reference to other 'traditional' foods in a manner that makes clear to consumers their distinct origins or properties."
- FDA held Nutrition Innovation Strategy Public Meeting on July 26, 2017
 - Key issue: Modernizing Standards of Identity
 - Dr. Gottlieb reiterated and elaborated on concerns regarding plant-based products using the term "milk" (or other dairy related terms) as part of their name
 - FDA may formally request comments on naming of milk substitutes

Cell-based meat

- Completion of FDA comment period and review of July 12 meeting
- FDA Science Board overview of potential hazards and safety considerations
- Clarification from FDA & USDA regarding regulatory framework and point of entry
- USDA / FSIS decision on U.S. Cattlemen's Petition or naming more generally
- Case-specific determinations
- Continued political interest and legislation (e.g., Federal Ag Appropriations; Missouri law)
- Litigation

Plant-based meat and dairy

- FDA request for comment and issuance of policy statement
- Continued political interest and legislation (e.g., Missouri law)
- Ligitation

Questions?

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