



Public Health
Prevent. Promote. Protect.

Frederick County Health Department

Barbara A. Brookmyer, M.D., M.P.H. ▪ Health Officer

Special Processes & Processing Authorities

Foods made with a special process including acidified and low acid foods are required to submit results of the *process review* along with the application. A process review is a complete evaluation of how a food product is made, including all the steps of preparation, ingredients and packaging. Process reviews also determine whether a processed food is an acid food or acidified food (21CFR113.83 & 113.89). Acidified foods/Low-Acid Canned Foods require special training, and a scheduled process with the FDA.

Canning of food using water baths do not provide adequate heating to prevent microbial spoilage or to control *Clostridium botulinum* in low-acid food. The primary concern with canned food, is that further cooking is not required; therefore, it is critical that such foods be processed correctly to render them safe and do not harm the consumer.

The process review is conducted by a food *processing authority*. The process authority will review the process and write a process review letter determining the appropriate food safety guidelines, standards of identity, applicable regulations, and recommended processing steps. Food tests may include:

- water activity (a_w)—to determine the amount of “free” water in baked and other foods available to support bacterial growth;
- pH—to measure the acidity of pickled foods and salsa (most bacteria will not grow in acidic foods);
- Brix—to determine the concentration of dissolved sugars in jams, jellies, and syrups;
- titratable acidity—to measure the actual amount of acids in vinegars or mustards; and
- water phase salt—to determine the percentage of salt in smoked or dried seafood and fish.

The process review also aids in identifying critical control points in a HACCP plan, such as final fill temperature and finished equilibrium pH. These key factors are part of the *process schedule* developed by the process authority to ensure the delivery of a safe food product.

Note: Regardless of processing method used, there will be critical factors that must be monitored for each batch of product made. Record keeping requirements apply.

All paperwork and a final product label must be submitted to the Frederick County Health Department Food Office for review and inclusion in the approved HACCP plan. Approval is required prior to manufacturing any food product which involves a specialized process.

A list of process authorities where you can have your product evaluated is attached.



Barry Glotfelty ▪ Director

Environmental Health Services ▪ 350 Montevue Lane ▪ Frederick, MD 21702

Phone: 301-600-1715 ▪ Fax: 301-600-3180 ▪ MD TTY: 1-800-735-2258



NYSAES

Cornell Food Venture Center
201 Sturtevant Hall
630 W. North Street
Geneva, NY 14456

<https://cfvc.foodscience.cals.cornell.edu/>

North Carolina State University

Dept. of Food, Bioprocessing, and Nutrition Sciences
Campus Box 7624
Raleigh, NC 27695

Contact: Arritt Fletcher, Ph.D., Food Science

Phone: 919-513-0176

E-mail: fletcher_arritt@ncsu.edu

<http://www.ncsu.edu/foodscience/extension.htm>

Rutgers University

Center for Advanced Food Technology

120 New England Ave.

Piscataway, NJ 08901

Contact: William Franke, Ph.D., Associate Director

Phone: 732-445-6130

E-mail: franke@aesop.rutgers.edu

<http://caft.rutgers.edu>

University of Nebraska-Lincoln

The Food Processing Center

143 Food Industry Complex

P.O. Box 830930

Lincoln, NE 68583-0930

Contact: Jill Gifford, Mgr., Food Entrepreneur Assist. Program

Phone: 402-472-2832

E-mail: jgifford1@unl.edu

<http://fpc.unl.edu>

New Mexico State University

College of Agriculture and Home Economics

Dept. of Extension Home Economics

P.O. Box 30003, MSC 3 AE

Las Cruces, NM 88003-8003

Contact: Nancy C. Flores, Ph.D., Food Tech. Ext. Specialist

Phone: 575-646-1179

E-mail: naflores@nmsu.edu

<http://aces.nmsu.edu/ces/foodtech>

University of Maine

Dept. of Food Science and Human Nutrition

109 Hitchner Hall

Orono, ME 04469-5735

Contact: Alfred A. Bushway, Ph.D., Food Science

Phone: 207-581-1629

E-mail: bushway@maine.edu

www.umaine.edu/foodinfo

University of Florida

Dept. of Agricultural & Biological Engineering

207 Frazier Rodgers Hall, P.O. Box 110570

Gainesville, FL 32611-0570

Contact: Arthur A. Teixeira, Ph.D., P.E., Food Engineering

Phone: 352-392-1864, ext. 207

E-mail: aateixeira@ifas.ufl.edu

www.abe.ufl.edu/people/directory/facultyprofiles/teixeira-arthur.shtml

University of Kentucky

Dept. of Animal and Food Sciences

203 W.P. Garrigus Building

Lexington, KY 40546-0215

Contact: Joe O'Leary, Ph.D., Associate Professor

Phone: 859-257-5882

E-mail: joleary@uky.edu

<http://www.uky.edu/Ag/AnimalSciences/foodsci/foodscience.html>

Washington State University

School of Food Science

P.O. Box 646376

Pullman, WA 99164-6376

Contact: Richard H. Dougherty, Ph.D., Food Science Specialist

Phone: 509-335-0972

E-mail: Dougherty@wsu.edu

www.foodprocessing.wsu.edu/evaluation.html

Kansas State University

Food Science Institute – Thermal Processing Lab

216D Call Hall

Manhattan, KS 66506

Contact: Fadi Aramouni, Ph.D., Prof./Extension Specialist

Phone: 785-532-1668

E-mail: aramouni@k-state.edu

<http://www.foodsci.ksu.edu/p.aspx?tabid=622>

University of Wisconsin – Madison

1605 Linden Dr., Room 203A

Madison, WI 53706

Contact: Barbara Ingham, Ph.D., Food Safety Specialist

Phone: 608-263-7383

E-mail: bingham@wisc.edu

www.foodsafety.wisc.edu

STOCK America, Inc.

1806 Garner Station Blvd.

Raleigh, NC 27604

Phone: 919-661-1911

www.stockamerica.com