



TOP TEN WAYS TO GET A WARNING LETTER

training from NSF International





Top Ten Ways to Get a Warning Letter

What are cGMPs?

Current Good Manufacturing Practices

The cGMP final rule establishes the minimum cGMPs necessary for activities related to manufacturing, packaging, labeling, or holding dietary supplements to ensure the efficacy, quality, purity and safety of the dietary supplement.





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Where are the cGMPs found?

- Code of Federal Regulations (CFR)
 - Dietary Supplements (21 CFR 111)
 - <http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/CFRSearch.cfm?CFRPart=111&showFR=1>
- On the Web – Guidance documents (www.fda.gov)
- Dietary Supplements Preamble, and
- Comments and Responses. See website link <http://www.fda.gov/OHRMS/DOCKETS/98fr/cf0441.pdf>

code of
federal regulations





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FDA has Legal Authority



- Following cGMPs is **NOT** optional
- All dietary supplements, available for use in the U.S., **must** be produced according to the FDA's cGMP regulations
- cGMPs apply to **all** employees





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How does the FDA enforce the cGMPs?



The FDA comes to your facility to perform an inspection

The FDA evaluates your conformance to the cGMP requirements – 21 CFR 111





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Actions that FDA may take upon and after an inspection

- 483
- Regulatory meetings
- WARNING LETTER
- Fines
- Consent Decree
- Seizure
- Injunction
- Indictment





Top Ten Ways to Get a Warning Letter



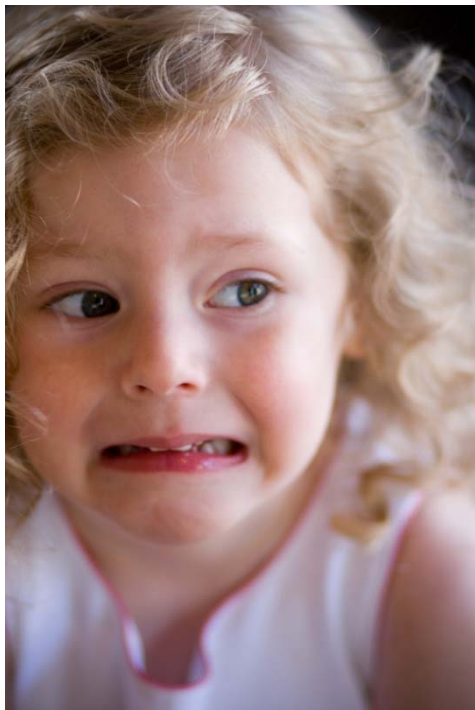
**WHAT ARE THE
TOP TEN WAYS TO
GET A WARNING
LETTER?**





Top Ten Ways to Get a Warning Letter

The Top Ten Violations



1. Specifications & identification testing
2. Master batch records
3. Batch records
4. Procedures & documentation
5. Qualification of vendors
6. Quality control
7. Investigations
8. Returned goods
9. Complaints
10. Cleaning





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SPECIFICATIONS & IDENTIFICATION

Specifications must be established for:

LabTreat™OmniTreat™ Enrichment Tablet		5TCY
DESCRIPTION	NUTRITIONAL PROFILE¹	
LabTreat™OmniTreat™ Enrichment Tablet is a nutritionally complete diet for 100 human pounds, dogs, and other companion animals. Available in several flavors, the OmniTreat™ formula is specifically designed to produce LabTreat™ Tablets (omission pellets) to enrichment, essential behavior modification, and general nutrition. (See formula 5TCY for GLP/FAF values.)	Protein, % 16.0	Minerals
Storage conditions are particularly critical to TestDiet products, due to the absence of antioxidants or preservative agents. To provide maximum protection against possible changes during storage, store in a dry, cool location, storage under nitrogen and (1) do not repackage. Maximum shelf life is one year. (If long term studies are involved, storing the diet at 20° C or cooler may prolong shelf life.) Be certain to keep in an airtight container.	Arginine, % 0.73	Asb, % 6.6
Product Forms Available* Catalog #	Histidine, % 0.54	Calcium, % 1.61
See Second Page	Isoleucine, % 1.23	Phosphorus, % 0.70
INGREDIENTS	Leucine, % 1.86	Phosphorus (available), % 0.66
Sucrose, Casein, Microcrystalline Cellulose, RP Mineral Mix #10 (add to 30g Water), Coat (DL-Silicon Dioxide, RP Vitamin Mix (add 1.84g sucrose), Maltodextrin, Milk Protein, Magnesium Stearate, Ascorbic Acid, Choline Bitartrate, DL-Methionine, L-Cysteine, Taurine, Ferrous Sulfate. Artificial Flavors and colors added were applicable.	Lysine, % 1.53	Potassium, % 0.46
FEEDING DIRECTIONS	Methionine, % 0.72	Magnesium, % 0.09
Feed as directed. Fluffy of birth, clean water should be available at all times.	Cysteine, % 0.19	Sulfur, % 0.16
	Protein/Alanine, % 0.99	Sodium, % 0.22
	Tyrosine, % 1.01	Chloride, % 0.25
	Threonine, % 0.82	Fluorine, ppm 4.8
	Tryptophan, % 0.22	Iron, ppm 99
	Valine, % 1.47	Zinc, ppm 27
	Aspartic Acid, % 0.62	Manganese, ppm 69
	Glutamic Acid, % 3.70	Copper, ppm 16
	Glycine, % 0.92	Cobalt, ppm 5.20
	Proline, % 1.61	Iodine, ppm 0.97
	Serine, % 0.93	Chromium, ppm 3.00
	Threonine, % 0.10	Selenium, ppm 0.23
	Fat (ether extract), % 5.1	Vitamins
	Fat (acid hydrolysis), % 5.1	Calcitonin, ppm 0.0
	Cholesterol, ppm 0	Vitamin A, I.U/g 22
	Linoleic Acid, % 26.0	Vitamin D-3 (chole), I.U/g 2.2
	Linolenic Acid, % 0.04	Vitamin E, I.U/g 50
	Asphaltenic Acid, % 0.03	Vitamin K (as menadiolone), ppm 10.3
	Omega-3 Fatty Acids, % 0.04	Thiamin Hydrochloride, ppm 21
	Total Saturated Fatty Acids, % 0.83	Riboflavin, ppm 20.2
	Total Monounsaturated Fatty Acids, % 1.34	Niacin, ppm 90
	Polysaturated Fatty Acids, % 2.65	Pantothenic Acid, ppm 56
		Folic Acid, ppm 4.1
		Pyridoxine, ppm 16.42
		Biotin, ppm 0.4
	Fiber (max), % 7.4	Vitamin B-12, mcg/kg 20
	Neutral Detergent Fiber ² , % 7.3	Choline Chloride, ppm 1,040
	Acid Detergent Fiber ² , % 7.2	Ascorbic Acid, ppm 4,064
	Nitrogen-Free Extract (by difference), % 52.3	
	Starch, % 1.38	
	Dextrose, % 20.69	
	Fructose, % 24.68	
	Sucrose, % 50.81	
	Lactose, % 0.21	
	Total Digestible Nutrients, % 79.2	
	Energy (kcal/g)³ 339	
	Protein, kcal % 0.744	
	Fat (ether extract) 8.856	
	Carbohydrates 2,000	
CAUTION: Preparation - store properly upon receipt. For laboratory animal use only; not for human consumption.		
9300012		TestDiet www.testdiet.com

- Identity
- Every component
- in-process specifications
- Limits on contamination
- Labels and packaging material
- Finished product for:
 - Identity
 - Purity
 - Strength
 - Composition
 - Limits on contamination





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MASTER MANUFACTURING RECORD



- Specifications for the points, steps, or stages in the manufacturing process must be established
- Controls and procedures must be established to ensure that each batch that you manufacture meets the specifications identified above





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BATCH RECORD

A batch production record must:

- Be prepared every time you manufacture a batch of a dietary supplement
- Accurately follow the appropriate master manufacturing record



You must perform each step included in the batch record





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PROCEDURES AND RECORDS

What records must be made available to FDA?

- You must have all records, or copies of records, readily available during the retention period for inspection
- You must also allow copying by FDA of all records when requested





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VENDOR QUALIFICATION



111.75

You first qualify the supplier by establishing the reliability of the supplier's certificate of analysis through confirmation of the results of the supplier's tests or examinations





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Quality Control

What are the requirements for quality control operations?

You must implement quality control operations in your manufacturing, packaging, labeling, and holding operations for producing the dietary supplement to ensure the quality of the dietary supplement and that the dietary supplement is packaged and labeled as specified in the master manufacturing record.





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INVESTIGATION

Nonconformance investigations should include:



- Identification of the unexpected event
- Description of your root cause investigation
- Product impact assessment
- Corrective actions, if possible





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RETURNED DIETARY SUPPLEMENTS

If reprocessing is approved Quality Control must:

- Determine whether product specifications are met
- Conduct a material review and make a disposition recommendation
- Approve or reject the returned product's release for redistribution





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COMPLAINTS

The written record of the product complaint must include the:

- Name and description of the product
- Batch, lot or control number
- Date the complaint was received
- Name, address, or telephone number of the complainant





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CLEANING CONTROL

Equipment and utensils must be dismantled for maintenance, cleaning, and sanitizing to their smallest parts.





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Conclusion



What YOU must do to comply with CGMPs:

- Have a Master Batch Record for each product
- Carry out all production following the batch record
- Know and follow all procedures and complete all records accurately
- Commit to cleaning and sanitizing regularly
- Perform Identification testing and keep records of it
- Have specifications for everything
- Have an active Quality Operations team within the facility
- Investigate all anomalies
- Have a Return Process in place
- Have a Complaint process
- Report Adverse Events





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NSF Dietary Supplements Training

This slide show is a sneak peak into the training course “Top Ten Ways to Get a Warning Letter”. To view dates and locations please visit our **website** <http://www.nsf.org/training-education/all-courses/category/dietary-supplements>

call 800.673.6275, ext. 5600

or **email** training@nsf.org





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Resources

- U.S. Food and Drug Administration (www.fda.gov)
 - Dietary Supplements (21 CFR 111)
- Dietary Supplements (<http://www.fda.gov/OHRMS/DOCKETS/98fr/cf0441.pdf>)
- FDA FAQ (<http://www.fda.gov/oc/guidance/qsas.html>)
- “*Botanical Dietary Supplements: Quality, Safety and Efficacy*” by Gail B. Mahady, Harry Fong, Norman Farnsworth Swets & Zeitlinger
- Pharmacopoeia's- USP, EP, BP, JP
- Methods References: AOAC, etc



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Resources

- Draft Voluntary Guideline No. 3: Dietary Supplement Component Supplier Qualification, April 2012, SIDI Work Group
http://www.sidiworkgroup.com/resources/Documents/DRAFTComponentSupplierQualificationGuideline_SIDIWorkGroup_April2012.pdf
- NSF International (www.nsf.org)
 - Dietary Supplements Division, dietarysupplements@nsf.org
tel +1 (734) 827-6856
 - SOP Resource Book - <http://www.nsf.org/training-education/educational-materials-tools/training-materials/gmp-sourcebook/>