

How FDA Thinks...
About its Bulks Lists Nominations, Bulks Lists Reviews, and
Claims and Substantiation

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FDA's Bulks List: Section 503A

History





The (Tortured) History of the Section 503A Bulks List

- January 7, 1999: FDA proposed rule listing bulk drug substances that may be used in pharmacy compounding).
- November 2013: Congress passed the Drug Quality and Security Act, Title I (Compounding Quality Act)
 - · Created "Outsourcing Facilities"
 - · Excised unconstitutional advertising provision from Section 503A
 - · 503A was reinvigorated
- December 2013: Issued guidance documents on Bulks List Nominations for both 503A and 503B
- Industry (until July 2014): Nominated over 2,000 substances for FDA's Bulks List
- · FDA called "uncle" and demanded a "do over"





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History of the Section 503A Bulks List (Cont'd)

July 2014:

- FDA reopened the nominations process
- Provided "clearer" guidance on the content of nominations
- Approximately 740 substances nominated under the refined process
- FDA engages in consultation with the Pharmacy Compounding Advisory Committee and USP





History of the Section 503A Bulks List (Cont'd)

FDA Review Criteria; October 2014 Federal Register Notice

- (1) The physical and chemical characterization of the substance;
- (2) Any safety issues raised by the use of the substance in compounded drug products;
- (3) Historical use of the substance in compounded drug products, including information about the medical condition(s) the substance has been used to treat and any references in peer-reviewed medical literature; and
- (4) The available evidence of effectiveness or lack of effectiveness of a drug product compounded with the substance, if any such evidence exists.

 Alliance for Pharmacy Compounding



History of the Section 503A Bulks List (Cont'd) FDA Review Criteria; October 2014 Federal Register Notice

- Provide a bibliography of safety and efficacy data for the drug compounded using the nominated substance, if available, including any relevant peer-reviewed medical literature.
- Describe past uses of the bulk drug substance in compounding.
- Provide information on the proposed use of the compounded drug product
- Provide a rationale for the use of a compounded drug product.
- Submit nominations to FDA docket.





History of the Section 503A Bulks List (Cont'd) FDA Review Criteria

- (1) FDA evaluates the entire submission.
- (2) FDA evaluates anecdotal evidence of efficacy and safety.
- (3) FDA prefers clinical studies, but understands that the studies will not be as robust as clinical trials used in FDA approved drug products.
- (4) Industry should update submissions with additional information while the nomination is pending.





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History of the Section 503A Bulks List (Cont'd) FDA Review Criteria

Other considerations?

- (1) Lack of rigorous evidence of safety and effectiveness.
- (2) Low quality data; mostly anecdotal.
- (3) Limited oversight and widespread use.
- (4) Is there a public health concern?
- (5) What does the PCAC or USP say? And does it matter?





History of the Section 503A Bulks List (Cont'd)

February 2016

· Published Proposed Rule for 503A evaluation criteria and bulks list for six substances

· Interim Policy on 503A Compounding from Bulk Substances

February 2019

- · Published Final Rule for 503A evaluation criteria and bulks list for six substances
 - Brilliant Blue G
 - Cantharidin (topical only)
 - Diphenylcyclopropenone (topical use only)
 - N-acetyl-D-glucosamine (topical only)
 - Squaric Acid dibutyl ester (topical) Thymol iodide (topical)
- · Four did not make the cut.
 - Oxitriptan
 - Piracetam
 - · Silver Protein Mild
 - Tranilast
- Regulation?: 21 C.F.R. §216.23





History of the Section 503A Bulks List (Cont'd)

September 2019

- FDA published a second proposed regulation in September 2019
- Proposed to place five nominated substances on the list
- Proposed not to place 26 other substances on the list.
- After considering public comments, the Agency will issue a final regulation.
- As of today these additions have not been added to the final regulation.





History of the Section 503A Bulks List (Cont'd)

- · Five Additions: Glutaraldehyde, glycolic acid, L-citrulline, pyruvic acid, and trichloroacetic acid (TCA).
- 26 "No's":
- 7-keto dehydroepiandrosterone (DHEA)
- acetyl-L-carnitine (ALC)
- alanyl-L-glutamine Aloe vera 200:1 freeze dried
 epigallocatechin gallate (EGCG)
- astragalus extract 10:1
- Boswellia serrata extract (BWSE)
- cesium chloride
- chondroitin sulfate
- Chrysin
- Curcumin
- D-ribose
- deoxy-D-glucose

- Diindolylmethane
- domperidone
- germanium sesquioxide glycyrrhizin
- kojic acid
- Nettle
- nicotinamide adenine dinucleotide (NAD)
- nicotinamide adenine dinucleotide disodium reduced (NADH)
- rubidium chloride
- sodium dichloroacetate
- vasoactive intestinal peptide (VIP)





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History of the Section 503A Bulks List (Cont'd) **FDA Review Criteria**

Oxitriptan

One of the substances FDA removed from List 1 via final rulemaking.

- Several compounding pharmacies contacted FDA
- Summit Health Pharmacy (PA) submitted a citizen petition requesting FDA add oxitriptan to the Bulks List; that FDA allow compounding for certain patient population in the interim period.
- Medication is used for patients with BH4 deficiency.
- CP included a review of literature and case histories.





History of the Section 503A Bulks List (Cont'd) FDA Review Criteria

Oxitriptan

- While FDA has not added oxitriptan to the Bulks List, FDA announced it will not object to oxitriptan being compounded for patients with this condition.
- The Agency informed stakeholders that it does not intend to object to the compounding of oral oxitriptan for patients with BH4 deficiency who have a prescription identifying the disorder, so long as compounded in compliance with all other conditions of section 503A of the FD&C Act.
- Agency took a patient-centered approach to regulation.
- Example of where directed advocacy worked.





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Bulks List Today

- Interim List last updated September 29, 2023
- Significant additions to FDA's Bulks List 2
- Multiple substances cannot be used in compounding because they "raise significant safety risks"
- FDA is focusing on "peptide-related" impurities
- Lack of sufficient safety information and related similar concerns for most peptide nominations.





FDA's Bulks List II September 23 additions

- AOD 9604
- BPC-157
- Cathelicidin LL-37
- CJC-1295
- Dihexa Acetate
- Emideltide (DSIP)
- Epitalon
- GHK-Cu (for injectable routes of administration)
- Ibutamoren Mesylate
- · Ipamorelin Acetate

- Kisspeptin-10
- KPV
- Melanotan II
- Mechano Growth Factor, Pegylated (PEG-MGF)
- MOTs-C
- Selank Acetate (TP-7)
- Semax (heptapeptide)
- Thymosin Alpha-1 (Ta1)
- Thymosin Beta-4, Fragment (LKKTETQ)





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503A Bulks List Challenge

- Evexias Medical Centers, PLLC; Evexias Health Solutions, LLC; and North American Custom Laboratories, LLC, D/B/A Farmakeio Custom Compounding v. FDA, filed March 29, 2024 (N.D. Texas)
- Lawsuit filed in Federal Court challenging FDA's determination that certain peptide products are ineligible for compounding based on FDA's interim determination.





FDA Bulks List Challenge

- Evexias Medical Centers, PLLC; Evexias Health Solutions, LLC; and North American Custom Laboratories, LLC, D/B/A Farmakeio Custom Compounding v. FDA, filed March 29, 2024 (N.D. Texas)
- In all practical respects, the FDA's "interim" categorization policy has the force and effect of law. Specifically, as relevant here, the FDA and industry treat substances that are assigned to Category 2 as illegal to compound.
- On September 29, 2023, with no notice or opportunity for comment, the FDA assigned nineteen drug substances to Category 2 of its "interim" policy, thereby effectively prohibiting their use in compounding.
- Four of the peptides assigned to Category 2 are AOD-9604, CJC-1295, ipamorelin acetate ("ipamorelin"), and Thymosin Alpha-1 ("Ta1").





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Bulks List Challenge

- Evexias Medical Centers, PLLC; Evexias Health Solutions, LLC; and North American Custom Laboratories, LLC, D/B/A Farmakeio Custom Compounding v. FDA, filed March 29, 2024 (N.D. Texas)
- · FIRST CAUSE OF ACTION: (Arbitrary and Capricious Agency Action in Violation of APA)
- SECOND CAUSE OF ACTION: (Invalid Rulemaking Without Notice and Comment)
- THIRD CAUSE OF ACTION: (Agency Action Unlawfully Withheld or Unreasonably Delayed in Violation of APA)





Bulks List Challenge

 Evexias Medical Centers, PLLC; Evexias Health Solutions, LLC; and North American Custom Laboratories, LLC, D/B/A Farmakeio Custom Compounding v. FDA, filed March 29, 2024 (N.D. Texas)

Prayer for Relief

- A. Declare that the FDA's designation AOD-9604, CJC-1295, ipamorelin, and Ta1 to Category 2 is arbitrary and capricious in violation of the APA;
- B. Declare that the FDA's "interim" categorization of drug substances without notice and comment violates the APA;
- C. Declare that the FDA has unreasonably delayed finalizing the Section 503A Bulks List, including in determining whether AOD-9604, CJC-1295, ipamorelin, and Ta1 should be included on the list;
- D. Vacate the FDA's designation AOD-9604, CJC-1295, ipamorelin, and Ta1 to Category 2;
- E. Vacate the FDA's "interim" categorization of drug substances without notice and comment;
- F. Enjoin the FDA from taking enforcement action against plaintiffs based on its "interim" categorization;
- G. Compel the FDA to finalize the Section 503A Bulks List, including determining whether AOD-9604, CJC-1295, ipamorelin, and Ta1 should be included on the list....





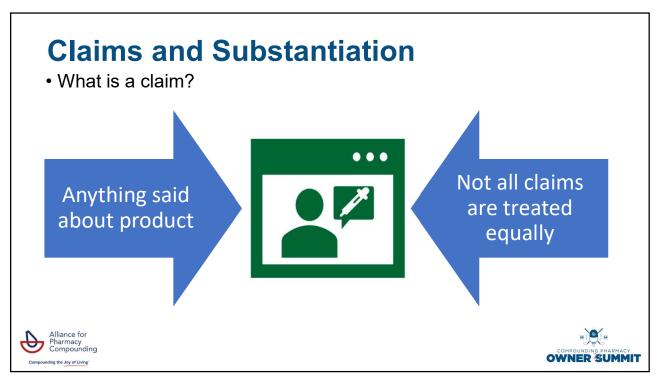
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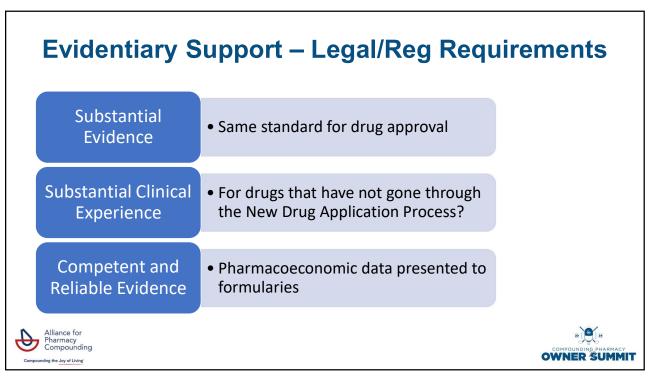
Levels of Evidence

Substantiation for prescription drug claims









Substantial Evidence

- Two adequate and well controlled studies
 - · This is typically FDA's expectation
- Data from one adequate and well-controlled clinical investigation + confirmatory evidence
- In some cases, FDA has determined data from one study is substantial evidence
 - The study provides a degree of statistical persuasiveness comparable to that of two such studies
 - The study demonstrates a clinically meaningful effect on mortality, irreversible morbidity, or prevention of a disease with potentially serious outcome such that conducting another trial would be unethical
- The quantity and quality of the evidence is always considered on a case-by-case basis for each drug





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Substantial Evidence

Adequate and Well Controlled

- A clear statement of objectives
- Proposed or actual methods of analysis
- Minimization of bias
- Methods for assessing subject response are well defined See, e.g., 21 C.F.R. § 314.126
- Secondary endpoints must be pre-specified and must meet pre-specified statistical requirements (hierarchical testing, correction for multiplicity)
- Data collection points without a statistical analysis plan rarely permitted





Substantial Evidence

- Confirmatory Evidence -
 - Evidence generated from quality data derived from "an appropriate source"
 - Clinical evidence from a different stage of the same disease or from a different but closely related disease
 - Compelling mechanistic evidence in the setting of well-understood disease pathophysiology
 - · Evidence from a relevant animal model
 - · Evidence from other drugs in the same pharmacological class
 - · Natural history evidence
 - · Real World Data/Evidence
 - · Evidence from Expanded Access
 - Quantity of confirmatory evidence may vary
 - Impacted by features and results from the single adequate and well controlled clinical investigation
 - Relevance of disease considerations
 - Are there unmet needs, size of patient population, etc.,





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Substantial Evidence

- Single Large Multicenter Trial
 - Limited to clinically meaningful and statistically persuasive effect on mortality, severe or irreversible morbidity, or prevention of a disease with a potentially serious outcome
 - · Confirmation of results would be impracticable or unethical
 - Adjusted for bias no single trial site should be the main contributor of the observed effect
 - Either a much bigger effect or many more patients
 - Results are consistent and clinically meaningful based on prospectively specified endpoints
 - Effects on objective endpoints (e.g., imaging) may complement subjective endpoints (e.g., clinician or patient reported outcomes)
 - Broad entry criteria and diverse trial populations help address generalizability of findings
 - Close scrutiny of trial conduct





Substantial Clinical Experience

- Experience adequately documented in medical literature or by other data . . . On the basis of which it can fairly and responsibly be concluded by qualified experts that the drug is safe and effective for such uses
 - (21 C.F.R. § 202.1(e)(4)(II)(c))
- FDA has taken the position in speeches that this standard is used to support claims for prescription drugs that have not been evaluated by the FDA through the NDA process
 - · This position is not reflected in law or regulations





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Competent and Reliable

- Standard is identified in the Federal Food, Drug, and Cosmetic Act but not defined in the law or implementing regulations
- FDA Guidance from 2018 describes "competent and reliable scientific evidence" as using generally accepted scientific standards, appropriate for the information being conveyed, that yield accurate and reliable results
 - FDA will consider existing current good research practices for substantiation developed by authoritative bodies
- Specifically applies to healthcare economic information provided to payors





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THANK YOU!

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