

920 Stillwater Road, Suite 130 West Sacramento, CA 95605 United States of America

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GemPure[™] Select Water for Injection (WFI) Quality Water (USP Grade) 901-001-XXX

Supplier: GeminiBio

Manufacturing Site Address: 920 Stillwater Road, Suite 130

(Company Headquarters) West Sacramento, CA 95605

United States of America

Contact Information: David Terry, dterry@geminibio.com

Approval

-Signed by:

Sarah Fogenburg

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Signer Name: Sarah Fogenburg Signing Reason: I approve this document Signing Time: 09 January 2025 | 16:58 PST -904DEAAAAE0A40B0A59478F34E1F59B8

Sarah Fogenburg

Senior Director, Quality

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cGMP Statement

This is to certify that GeminiBio has manufactured the above products in accordance with all applicable current Good Manufacturing Practices as established in Title 21 Part 820 of the Code of Federal Regulations. This statement does not constitute the permission to use these products for API, final formulations, or therapeutic use. GeminiBio's products are manufactured for Research and further manufacturing use only.

GMO Statement

Since genetically modified materials (GMO) were introduced ~ 30 years ago, there have been approvals around the world for use in agriculture for pest control and crop yields. Since the use of GMO materials, there has also been passionate discussions related to the safe use of GMO materials and biodiversity.

GeminiBio supports the scientific evidence related to the use of GMO materials and acknowledges the work of the regulatory bodies around the world. GeminiBio also acknowledges the counter arguments and will continue to monitor the scientific information that is being generated and assess the impact to our product lines. The products that are listed above do not contain any GMO materials in the manufacture of the products.

Elemental Impurities Statement

GeminiBio's GemPure™ Select Water for Injection (WFI) Quality Water (USP Grade), catalog numbers 901-001-XXX, is produced using reverse osmosis and de-ionization methodologies. GeminiBio does not intentionally add any of the elements listed in the International Counsel for Harmonization of Technical Requirements for Pharmaceuticals for Human Use ICH Q3D or the United States Pharmacopeia USP<232>.

Residuals Solvents Statement

No solvents listed in the United States Pharmacopeia (USP <467>) and ICH Q3C are used in the manufacture of the products listed above. 2 propanol (Isopropyl alcohol) at a concentration of 70% is used as a cleaning agent for material packaging as it transits into the production environment but is not used on material surfaces that come into contact with the final product.





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Nitrosamine Statement

Background:

Nitrosamines or N-nitrosamines refer to any molecule containing the nitroso functional group according to the World Health Organization (WHO). These compounds are of concern because they are potential human carcinogens. It was unexpected that these compounds were found in approved drugs like angiotensin II receptor blockers (ARBs) and Metformin. Due to this, the European Medicines Agency (EMA) finalized a review of Regulation (EC) No. 726/2004 in June of 2020 providing guidance to marketing authorization holders (MAH) on how to prevent and detect nitrosamine impurities in human drug products. The Assessment Report EMA/ 369136/36/2020 was published in June 2020 and adopted by the Committee for Medicinal Products for Human Use (CHMP).

The Food and Drug Administration (FDA) put out the position guidance; *Guidance for Industry: Control of Nitrosamine impurities in Human Drugs* published in February 2021. This document recommends steps that manufacturers of active pharmaceutical ingredients (API) or final drug products should take to prevent and detect unacceptable levels of these compounds being present in final drug products.

GeminiBio Statement:

GeminiBio does not manufacture API or final drug products but does serve the pharmaceutical market with ancillary reagents used in the manufacture of drug products and takes seriously the health risk that nitrosamines can cause. GeminiBio can state that nitrosamines are not primary raw materials of product contact surfaces nor are they introduced into the manufacturing process of the products listed above. To the best of our knowledge, nitrosamines are not a component in the raw materials that GeminiBio purchases from our suppliers.





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TSE/BSE Statement

All components used during the production of GemPure™ Select Water for Injection (WFI) Quality Water (USP Grade), catalog numbers 901-001-XXX, have been evaluated to have been produced in a manner that GeminiBio would indicate that there is negligible risk for Transmissible Spongiform Encephalopathy Bovine Spongiform Encephalopathy (TSE/BSE) contamination The product does not contain, nor is derived from, specified risk material as defined in Commission Decision EMA 410/01/rev. 3. Materials were sourced from vendors where the risk of TSE/BSE would be classified as negligible due to their composition or production methods.

There is a possibility that some materials used in the manufacturing process may come into contact with tallows. As tallow derived additives may be used in the manufacture of the raw material the elimination of the risk of Bovine Spongiform Encephalopathy (BSE), Transmissible Spongiform Encephalopathy (TSE), "Mad cow" is certified based on the manufacturing process of the raw material.

The tallow derivatives used for the production of the plastic materials undergo a series of severe process steps during manufacture:

- Normally, pre-treatment of tallow and/or animal fat with strong acids
- Hydrolytic cleavage at temperatures above 200°C, under pressure, for more than 20 minutes
- Transesterification of the fatty acids with methanol at temperatures above 200°C, under high pressure, for more than 20 minutes
- Reduction of fatty acid methyl esters with hydrogen at temperatures above 200°C, under pressure for more than 20 minutes.

According to revised opinion of the EU scientific steering committee on the safety of Tallow (June 2001) and the recommendation for inactivation of TSE included (among others) in the Commission Directive 2000/6/EC, in the report of APAG of April 2001 and also in the Regulation (EC) N.1774/2002, the above-mentioned treatments do ensure a complete inactivation of any TSE/BSE agent regardless of the source and type of material. The additional exposure of the plastic materials to temperatures ranging from 150°C to 300°C during 30 seconds up to several minutes, represents an additional safety factor ensuring the complete protection in respect of TSE/BSE for plastic materials.

Thus, tallow derived materials used in the raw material of the products fulfill the requirements laid down in the Regulations 1069/2009/EC, and 142/2011/EC, and the "Note for Guidance EMA/410/01, rev. 3". GeminiBio suppliers declare that the tallow derivatives are category 3 materials and are manufactured under conditions given in the aforementioned Note for Guidance.

*Specified risk material as defined by the EC include a) The skull, including the brain and eyes, tonsils and spinal cord of bovine animals aged over 12 months and of bovine and caprine animals which are aged over 12 months or have a permanent incisor tooth erupted through the gum; b) The spleens of bovine and caprine animals.

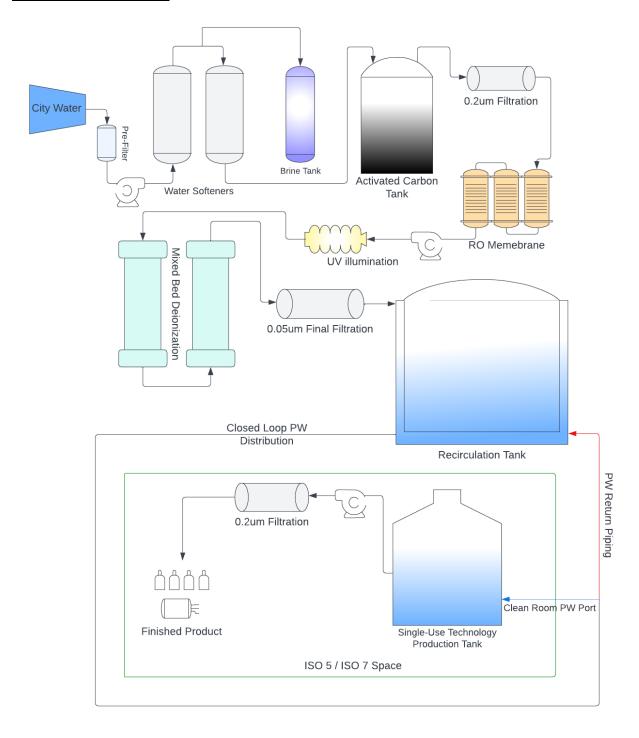


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Process Flow Diagram



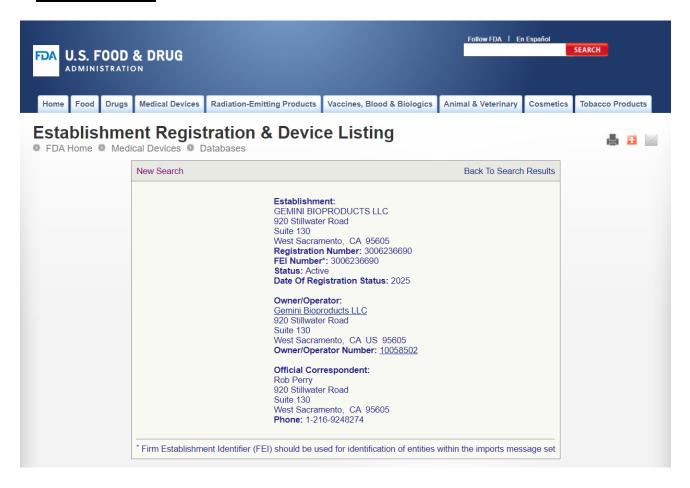


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FDA Registration







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ISO 13485:2016 Certification



This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289 Great Road, Suite 105, Acton, MA 01720, an accredited organization under the ANSI National Accreditation Board.





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global assurance Appendix to Certificate Number: 20173 ertificate of Registration Includes Facilities Located at: Gemini Bioproducts, LLC Main Office, Manufacturing, Testing Certificate Number 20173 920 Stillwater Road, Suite 130 West Sacramento CA 95605 United States of America Gemini Bioproducts, LLC Shipping, Receiving, Warehousing (In process for Certificate Number 20173 Manufacturing and Testing) 3230 Reed Avenue West Sacramento CA 95605 United States of America Certified Since: May 12, 2021 Valid Until: May 11, 2027 Reissued: May 14, 2024 Cycle Issued: May 14, 2024 Page 2 of 2 This approval is subject to the company maintaining its system to the required standard, which will be monitored by NQA, USA, 289 Great Road, Suite 105, Acton, MA 01720, an accredited organization under the ANSI National Accreditation Board.



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Quality Manual Cover Page and Table of Contents

	Document #: QA.SOP.001	Effective: 08MAY2023			
GeminiBio.	Revision: 009	Page 1 of 23			
Title: Quality System Manual					



Gemini Bioproducts, LLC Quality System Manual



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List of Standard Operating Procedures (SOPs)

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2-stal of Ocatava an Brancata	Contract Manufacturing Organization (CMO) SOP
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Control of Labels Procedure	Control of Labels Procedure
Controlled Document Development, Approval, and Periodic Review	Controlled Document Development, Approval, and Periodic Review
Controlled Material and Finished Product Specifications	Controlled Material and Finished Product Specifications
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Site Master File

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USDA Tamper Proofing Process

Use and Maintenance of the Cary 3500 UV-Vis Spectrophotometer

Use and Maintenance of the Chemical Fume Hood

Use and Maintenance of the M9 Laboratory TOC Analyzer

Use and Maintenance of Torque Wrench

Use and Storage of LIGHTNIN Mixer

Validation Protocols and Reports

Warehouse and Inventory Management

Warehouse to Warehouse Inventory Transfer in Sage



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Work Alone Policy and Procedure

Work Order Template BOM Creation in Sage

Work Order Time Entry and Parts Usage

Workplace Violence Prevention Plan



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Material Safety Data Sheet (MSDS)



Safety Data Sheet SDS Revision
GemPureTM Select Water for Injection
(WFI) Quality Water (USP Grade)

SDS Revision
Date: 06/30/2023

1. Identification

1.1. Product identifier

Product Identity GemPureTM Select Water for Injection (WFI)

Quality Water (USP Grade)

Catalog Number 901-001-XXX

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use For further Manufacturing or Research use Only.

Not for Direct Therapeutic Use.

1.3. Details of the supplier of the safety data sheet

Company Name GeminiBio

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Emergency

Customer Service: GeminiBio 1-800-543-6464

2. Hazard(s) identification

2.1. Classification of the substance or mixture

No applicable GHS categories.

2.2. Label elements

No applicable GHS categories.

[Prevention]:

No GHS prevention statements

[Response]:

No GHS response statements

[Storage]:

No GHS storage statements

[Disposal]:

No GHS disposal statements

3. Composition/information on ingredients

There are no ingredients in this product which are classified as hazardous, and/or no hazardous ingredients above the GHS cut off percentage.

Section 4. First aid measures





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4.1. Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or

stopped, give artificial respiration. If unconscious, place in the recovery position and

obtain immediate medical attention. Give nothing by mouth.

Eyes Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart

and seek medical attention.

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a

recognized skin cleanser.

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce

vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview No specific symptom data available.

Treat symptomatically. Check section 2.2 (GHS Label Elements) for further

details.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO_2 , powder, water spray.

Unsuitable extinguishing media: Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

5.3. Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

ERG Guide No. ----

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8. Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

Section 7. Handling and storage

7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.





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Check section 2.2 (GHS Label Elements) for further details.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: No available information

Check section 2.2 (GHS Label Elements) for further details. - [Storage]: Store product in 2°C - 30°C

conditions.

7.3. Specific end use(s)

No available information

Section 8. Exposure controls / personal protection

There are no ingredients in this product which are classified as hazardous, and/or no hazardous ingredients above the GHS cut off percentage.

8.2. Exposure controls

Respiratory If workers are exposed to concentrations above the exposure limit they must use the

appropriate, certified respirators.

Eyes Protective safety glasses recommended

Skin Avoid skin contact. Protective gloves recommended.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved

by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below

sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking

or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid

ColorClear and colorlessOdorNo available informationOdor thresholdNo available information

pH 4.0 - 7.0

Melting point / freezing pointNo available informationInitial boiling point and boiling rangeNo available information

Flash Point °F °C, Test method: (Open/Close cup)

Evaporation rate (Ether = 1) No available information Flammability (solid, gas) No available information

Upper/lower flammability or explosive limits Lower Explosive Limit: No available information

Upper Explosive Limit: No available information

Vapor pressure (Pa)

Vapor Density

Relative Density

Solubility in Water

Partition coefficient n-octanol/water (Log Kow)

Auto-ignition temperature

No available information



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Viscosity (cSt)
Oxidising properties
Explosive properties

No available information No available information No available information

9.2. Other information

No other relevant information.

Section 10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No available information

10.4. Conditions to avoid

Avoid high temperatures and contact with incompatible material

10.5. Incompatible materials

No available information

10.6. Hazardous decomposition products

No hazardous decomposition data available.

Section 11. Toxicological information

Acute toxicity

There are no ingredients in this product which are classified as hazardous, and/or no hazardous ingredients above the GHS cut off percentage.

Classification	Category	Hazard Description
Acute toxicity (oral)		Not Applicable
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)	- 1000 COM	Not Applicable
Skin corrosion/irritation		Not Applicable
Serious eye damage/irritation		Not Applicable
Respiratory sensitization		Not Applicable
Skin sensitization		Not Applicable
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable
Reproductive toxicity		Not Applicable
STOT-single exposure		Not Applicable
STOT-repeated exposure		Not Applicable
Aspiration hazard		Not Applicable

Section 12. Ecological information



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12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

There are no ingredients in this product which are classified as hazardous, and/or no hazardous ingredients above the GHS cut off percentage.

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

No available information

12.4. Mobility in soil

No available information

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No available information

Section 13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

Section 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA				
14.1. UN number	Not Regulated	Not Regulated	Not Regulated				
14.2. UN proper shipping name	Not Regulated	Not Regulated	Not Regulated				
14.3. Transport hazard class(es)	DOT Hazard Class: Not Applicable Sub Class: Not Applicable	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: Not Applicable Sub Class: Not Applicable				
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable				
14.5. Environmental hazards							
Marine Pollutant: No;							
14.6. Special precautions for user							
No a	vailable information						

Section 15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected

regulations are represented.

Toxic Substance All components of this material are either listed or exempt from listing on the TSCA

Control Act (TSCA) Inventory.





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EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information

SDS Revision Date 06/30/2023

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

Not Applicable

Disclaimer: The information presented herein is supplied as a guide to those who handle or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

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