

# Certificate

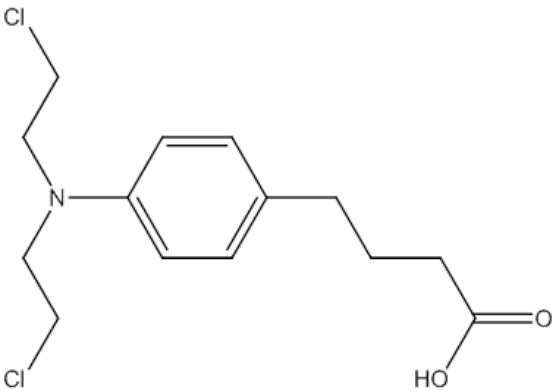
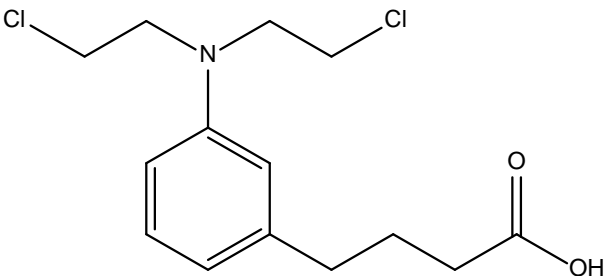
## CHLOROAMBUCIL SYSTEM SUITABILITY MIXTURE

(A mixture containing 4-[p-[Bis(2-chloroethyl)amino]phenyl]butyric acid and a small amount of 4-[m-[Bis(2-chloroethyl)amino]phenyl]butyric acid)

USP Catalog No.: 1106078

USP Lot No.: F049Y0

Only compendial components as listed in the monograph are shown below.

4-[p-[Bis(2-chloroethyl)amino]phenyl]butyric acid	
	CAS No.: 305-03-3
	Molecular Formula: C <sub>14</sub> H <sub>19</sub> Cl <sub>2</sub> NO <sub>2</sub>
	Molecular Weight: 304.21
4-[m-[Bis(2-chloroethyl)amino]phenyl]butyric acid	
	CAS No.: 134862-11-6
	Molecular Formula: C <sub>14</sub> H <sub>19</sub> Cl <sub>2</sub> NO <sub>2</sub>
	Molecular Weight: 304.21

**LABEL TEXT**

For use with specified USP compendial tests.  
Not for use as a drug. See SDS prior to use at  
[www.usp.org/sds](http://www.usp.org/sds).



Lot: F049Y0

**USP REFERENCE STANDARD**

**CHLORAMBUCIL SYSTEM SUITABILITY MIXTURE 25 mg**

(A mixture containing 4-[p-[Bis(2-chloroethyl)amino]phenyl]butyric acid and a small amount of 4-[m-[Bis(2-chloroethyl)amino]phenyl]butyric acid)



Danger! Toxic if swallowed. May cause cancer. Causes skin irritation.  
May cause an allergic skin reaction. Causes serious eye irritation.  
May cause genetic defects. May damage fertility or the unborn child.

Do not dry. Keep container tightly closed. Protect from light.  
Store in a refrigerator.

USP, 12601 Twinbrook Pkwy, Rockville, MD, +1-301-881-0666  
Cat. No. 1106078 Material mfd. in United Kingdom

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Rinse mouth. If on skin: Wash with plenty of water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

*Jeri L. Ioth*

*Quality Assurance*

**Calculation Value**

If a value is not provided on the label or accompanying documentation and the Reference Standard has a quantitative USP compendial application, a value of 100.0% is used. The purity value is not applicable for qualitative uses. Please refer to the specific Reference Standard label for further information.

**Expiration**

Current lots are identified in the current USP Catalog. In some cases, the previous lot may still be considered valid for use. If so, it is identified in the column marked "Previous Lot/Valid Use Date."

It is the responsibility of each user to determine that this lot is current or valid when used. For the most up-to-date information, please refer to the USP Store at [www.usp.org](http://www.usp.org).

**Instructions for Use**

Follow the instructions on the label of the USP Reference Standard and in the appropriate USP documentary standard(s).

**Non-Monograph Use**

The suitability of this Reference Standard for use in non-compendial applications is solely the responsibility of the user.

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