



# LKT Laboratories, Inc.

## Alloxan Monohydrate

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### Product Information

**Product ID** A4547  
**CAS No.** 2244-11-3  
**Chemical Name** 2,4,5,6(1H,3H)-pyrimidinetetrone monohydrate

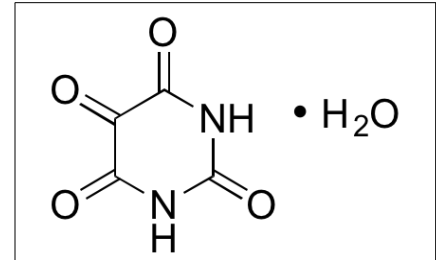
**Synonym** Alloxan

**Formula**  $C_4H_2N_2O_4 \cdot H_2O$   
**Formula Wt.** 160.08  
**Melting Point** 255° C  
**Purity** ≥98%  
**Solubility** Soluble in water.

**Store Temp** 4° C

**Ship Temp** Ambient

**Description** Alloxan is an oxygenated pyrimidine and toxic analog of glucose. Alloxan destroys  $\beta$  cells and is used in research models to induce diabetes. This compound does not affect human cells.



**Bulk quantities available upon request**

Product ID	Size
A4547	5 g
A4547	10 g
A4547	25 g

**References** Franzén S, Friederich-Persson M, Fasching A, et al. Differences in susceptibility to develop parameters of diabetic nephropathy in four mouse strains with type 1 diabetes. *Am J Physiol Renal Physiol.* 2014 May 15;306(10):F1171-8. PMID: 24623147.

Tyrberg B, Andersson A, Borg LA. Species differences in susceptibility of transplanted and cultured pancreatic islets to the beta-cell toxin alloxan. *Gen Comp Endocrinol.* 2001 Jun;122(3):238-51. PMID: 11356036.

Eizirik DL, Pipeleers DG, Ling Z, et al. Major species differences between humans and rodents in the susceptibility to pancreatic beta-cell injury. *Proc Natl Acad Sci U S A.* 1994 Sep 27;91(20):9253-6. PMID: 7937750.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.