
Product Data Sheet

Product Name: Picloxydine

Cat. No.: GC32369

Chemical Properties

Cas. No. 5636-92-0

SMILES N=C(N1CCN(C(NC(NC2=CC=C(Cl)C=C2)=N)=N)CC1)NC(NC3=CC=C(Cl)C=C3)=NFormula $C_{20}H_{24}Cl_2N_{10}$ M.Wt 475.38

Solubility DMSO : 11.36 mg/mL (23.90 mM; ultrasonic and warming and adjust pH to 5 with HCl and heat to 60°C) Store Storage at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Picloxydine is a heterocyclic biguanide with antibacterial and antiplaque activity.

0.4% Picloxydine produces a highly significant drop in the number of aerobic organisms.

0.4% Picloxydine is far more effective than 0.2% Picloxydine or chlorhexidine in reducing the total viable count of oral aerobic and anaerobic organisms[1]. Picloxydine is also used in eye drops in the topical therapy of trachoma[2].

[1]. Newcomb GM, et al. An in vivo comparison of chlorhexidine and picloxydine mouthrinses: a possible association between chemical structure and antiplaque activity. J Periodontol. 1977 May;48(5):282-4. [2]. Obikili AG, et al. A double-blind comparison of picloxydine dihydrochloride (Vitabact eye drops) and sulfacetamide eye drops in the topical therapy of trachoma. Rev Int Trach Pathol Ocul Trop Subtrop Sante Publique. 1988;65(3-4):119-32.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA