



LKT Laboratories, Inc.

Bisacodyl

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## Product Information

**Product ID** B3374

**CAS No.** 603-50-9

**Chemical Name** 4,4'-(2-Pyridylmethylene)-bisphenol diacetate

**Synonym** Bicol, Broxalax, Contalax, DAMP, Dulrolax, Endokolat, Laxadin, Laxorex, Perilax, Telemin, Ulcolax

**Formula** C<sub>22</sub>H<sub>19</sub>NO<sub>4</sub>

**Formula Wt.** 361.39

**Melting Point** 138° C

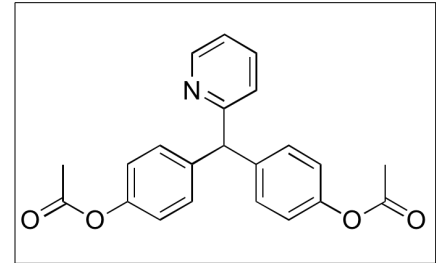
**Purity** ≥98%

**Solubility** Soluble in acids, acetone, propylene glycol and other organic solvents. Ethanol (4.5 mg/mL). Practically insoluble in water and alkaline solutions.

**Store Temp** 4° C

**Ship Temp** Ambient

**Description** Bisacodyl is a diphenylmethane derivative that exhibits gastrointestinal motility modulating (laxative) activity. Bisacodyl activates macrophages, activating PKC, increasing PGE2 secretion, and downregulating expression of aquaporin 3 channels; it may also inhibit the Na<sup>+</sup>/K<sup>+</sup> ATPase. As a result of these actions, colonic fluid and NaCl secretion is increased. Bisacodyl also stimulates enteric nerves, increasing contractions.



**Bulk quantities available upon request**

Product ID	Size
B3374	10 g
B3374	25 g

**References** Ikarashi N, Baba K, Ushiki T, et al. The laxative effect of bisacodyl is attributable to decreased aquaporin-3 expression in the colon induced by increased PGE2 secretion from macrophages. *Am J Physiol Gastrointest Liver Physiol.* 2011 Nov;301(5):G887-95. PMID: 21868635.

Manabe N, Cremonini F, Camilleri M, et al. Effects of bisacodyl on ascending colon emptying and overall colonic transit in healthy volunteers. *Aliment Pharmacol Ther.* 2009 Nov 1;30(9):930-6. PMID: 19678812.

Beubler E, Schirgi-Degen A. Stimulation of enterocyte protein kinase C by laxatives in-vitro. *J Pharm Pharmacol.* 1993 Jan;45(1):59-62. PMID: 8094448.

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