


Certificate of Analysis

Catalog Number	BP10621
Product Name	Diclofenac Potassium

Physical and Chemical Properties

Synonyms	Voltfast, Cataflam, CGP-45840B
CAS No.	15307-81-0
Chemical Formula	C ₁₄ H ₁₀ Cl ₂ KNO ₂
Molecular Weight	334.24
Solubility	Ethanol: <1 mg/mL H ₂ O: 10 mg/mL (29.91 mM); DMSO: 64 mg/mL (191.5 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	Diclofenac potassium is a nonsteroidal anti-inflammatory drug taken to reduce inflammation and as an analgesic reducing pain in certain conditions.
Targets&IC50	Human COX-2: 1.3 nM (IC ₅₀ , in CHO cells), Ovine COX-1: 5.1 nM (IC ₅₀), Ovine COX-2: 0.84 nM (IC ₅₀), Human COX-1: 4 nM (IC ₅₀ , in CHO cells)

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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