

## Certificate Of Analysis

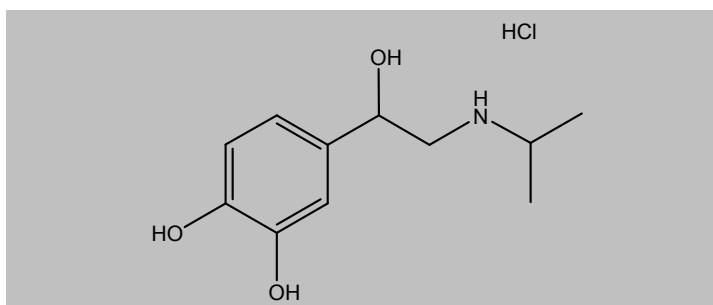
### Quality Control Testing and Research Application

COA Preparation Date: 11/10/2016  
COA Revision Date: 11/10/2019

**Product:** Isoproterenol hydrochloride  
**Cat. No.:** BG0400  
**Batch No.:** 0400BG/01  
**Chemical Name:** 4-(1-Hydroxy-2-((1-methylethyl)amino)ethyl)-1,2-benzenediol hydrochloride;  
Isoprenaline hydrochloride

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>11</sub>H<sub>17</sub>NO<sub>3</sub> .HCl  
**Batch Molecular Weight:** 247.72  
**CAS No.:** [51-30-9]  
**Physical Appearance:** Yellow solid  
**Melting Point:** 184° C  
**Solubility:** Soluble to 100 mM in water  
**Storage:** RT (protect from light)  
**Batch Molecular Structure:**



**Product Description:**  $\beta$ -adrenoceptor agonist. Dissociation constants for the high- and low-affinity states are 8 and 206 nM respectively, for  $\beta_1$  adrenoceptors, vs. 20 and 900 nM for  $\beta_2$  adrenoceptors (rat brain). Vasorelaxant and bronchodilator.

**References:** 1. Garnier et al. (1997) Pharmacol Res 35:303

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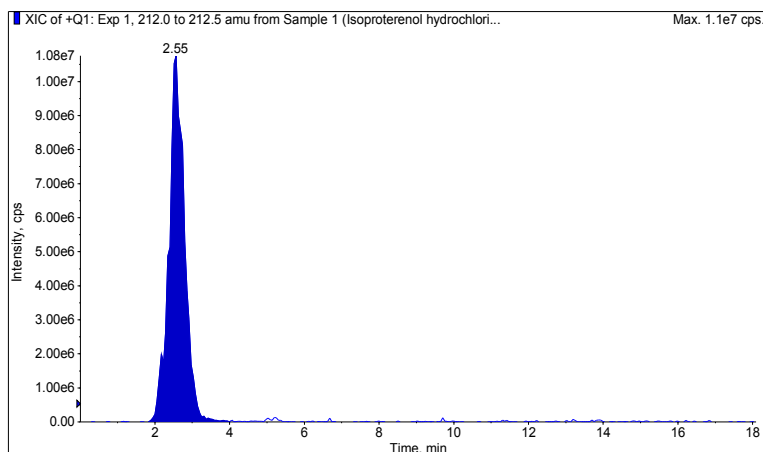
**BG0400 Isoproterenol hydrochloride**

#### 2. ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC Assay: > 99% (complies).



- CAUTION - Not fully tested. For Research use only. Not for human use. -