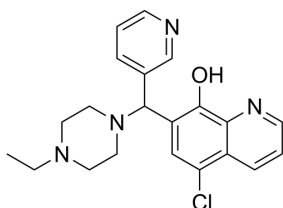


## Certificate of Analysis

**Product Name:** BRD 4354  
**Cat. No.:** CS-0062885  
**CAS No.:** 315698-07-8  
**Batch No.:** 45319  
**Chemical Name:** 8-Quinololinol, 5-chloro-7-[(4-ethyl-1-piperazinyl)-3-pyridinylmethyl]-

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>21</sub>H<sub>23</sub>ClN<sub>4</sub>O  
**Molecular Weight:** 382.89  
**Storage:** Storage temp. 2-8°C  
**Chemical Structure:**



### ANALYTICAL DATA

**Appearance:** White to off-white (Solid)  
**<sup>1</sup>H NMR Spectrum:** Consistent with structure  
**LCMS:** Consistent with structure  
**Purity (LCMS):** 98.04%  
**Conclusion:** The product has been tested and complies with the given specifications.

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

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA