



## Certificate of Analysis

### Lumefantrine 98%

**Catalog Number:** LU1001  
**Lot Number:** 0710702  
**CAS Number:** 82186-77-4  
**Synonym(s):** (9Z)-2,7-Dichloro-9-[(4-chlorophenyl)methylene]- $\alpha$ -[(dibutylamino)methyl]-9H-fluorene-4-methanol, Benflumetol, CPG-56695  
**Molecular Formula:** C<sub>30</sub>H<sub>32</sub>Cl<sub>3</sub>NO  
**Molecular Weight:** 528.94  
**Storage:** 15°C – 30°C  
**Date of Manufacture:** April 16, 2017  
**Retest Date:** April 15, 2019

Test	Specification	Result
Appearance	Yellow crystalline powder	Conforms
Assay	≥ 98%	98.3%
Identification	To pass test	Conforms
Melting Point	125°C – 131°C	127.5°C – 129.7°C
Solubility	Freely soluble in chloroform, slightly soluble in ethanol, insoluble in water	Conforms
Moisture (LOD)	≤ 0.2%	0.05%
Residue on Ignition	≤ 0.2%	0.06%
Related Impurities	≤ 4%	< 4%
Heavy Metals	≤ 20ppm	< 20ppm
Particle Size	≥ 200mesh	> 200mesh

Approved by:

Date: July 10, 2017

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