## **Certificate of Analysis**

Structure:	
Name	Cetirizine n-butyl ester
Synonym(s)	n-butyl (RS)-(2-(4-((4-chlorophenyl)phenylmethyl)-1-piperazinyl)ethoxy)acetate
Epichem Item #	EPL-AA95 Batch 1
CAS#	Not available
Molecular Formula	C <sub>25</sub> H <sub>33</sub> ClN <sub>2</sub> O <sub>3</sub>
Molecular Weight	445.01 g/mol
Purity	99.7% (weight/weight)
	99.9% by HPLC at 220nm (assuming all components have the same response factor). No significant impurities detected by <sup>1</sup> H NMR analysis. 0.2% water by Karl-Fischer method. 0.02% ash.
Combustion Analysis	Required (%): C:67.5; H:7.5; N:6.3. Found (%): C:67.7; H:7.7; N:6.6.
LC/MS Analysis	[M+H] <sup>+</sup> = 445.3 amu
Appearance	Light orange viscous oil
Date of Manufacture	13 July 2011
Storage Requirements	Protect from heat, light and moisture
Special Precautions	This compound is for laboratory use only. Its toxicological properties may not have been fully established. It should be handled only by suitably qualified personnel.