

Kalchem International

Chemicals & Compounding Supplies

CERTIFICATE OF ANALYSIS

GUAIFENESIN

USP34

COA No. 15329	Manufacture Date: Oct, 2012
Lot No.: 12GF10616	Expiry date: Oct, 2017

<u>Items</u>	<u>Standard</u>	<u>Results</u>
Description	White crystalline powder	White crystalline powder
Identification	A: IR	Complies
	B: UV	Complies
	C: Chemical test	Complies
Melting range	78°C ~ 82°C	80 °C ~ 81 °C
Loss on drying	NMT 0.5%	0.06%
Heavy metals	NMT 0.0025%	< 0.0025%
Chromatographic Purity β-isomer	NMT 1.5%	0.06%
Guaiacol	NMT 0.03%	0.003%
Bisether	NMT 0.5%	0.06%
1,3 bis(2-methoxyphenoxy)propan-2- o	NMT 0.5%	0.02%
other Individual Impurity (max)	NMT 0.1%	0.01%
Total Impurity	NMT 1.0%	0.09%
Residual Solvent Ethanol	0.50%	0.06%
Assay	98.0% - 102.0% by HPLC on dry basis	99.5%

Conclusion	The above product complies with USP34 standard.
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Date: Feb 11, 13

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