



CERTIFICATE OF ANALYSIS

Material: PROPIN OXIFENIL MANDELATO
DE DIMETIL AMINO ETANO CLORHIDRATO

Lot No: E-65181
Code No: 72455
Lab No: QC-41791

Tested according to: Delmar

TEST	SPECIFICATIONS	RESULTS
Description	White to creamy white powder	Conforms
Foreign material	Essentially free of foreign material	Conforms
Solubility	Soluble in water, alcohol, chloroform and diluted acids; sparingly soluble in acetone; practically insoluble in toluene, ether, ethyl acetate, hexane and diluted alkalis	Conforms
Identification (IR)	IR spectrum conforms to that of the reference standard	Conforms
Identification (precipitation)	A white precipitate is obtained from sample solution combined with AgNO ₃ TS	Conforms
Melting range	167 - 172°C	168-171
Water content (KF)	≤ 1.0% w/w	0.3
Residue on ignition	≤ 0.1% w/w	0.1
Loss on drying	≤ 1.0% w/w	0.1
Sulphate	≤ 100 ppm	< 100
Heavy metals	≤ 20 ppm	< 20
pH	3.6 - 4.2	3.6
Colour of solution	Less than analytical method standard (C)	Conforms
Assay (titration)	98.0 - 102.0% w/w on dried basis	100.5

Disposition: Meets specifications

Manufacturing date: June 20th, 2016

Retest date: June 20th, 2021

Date: July 20th, 2016

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por: *Keife Berrío*



CERTIFICATE OF ANALYSIS

Material: PROPIN OXIFENIL MANDELATO
DE DIMETIL AMINO ETANO CLORHIDRATO

Lot No: E-65185
Code No: 72455
Lab No: QC-42066

Tested according to: Delmar

TEST	SPECIFICATIONS	RESULTS
Description	White to creamy white powder	Conforms
Foreign material	Essentially free of foreign material	Conforms
Solubility	Soluble in water, alcohol, chloroform and diluted acids, sparingly soluble in acetone; practically insoluble in toluene, ether, ethyl acetate, hexane and diluted alkalis	Conforms
Identification (IR)	IR spectrum conforms to that of the reference standard	Conforms
Identification (precipitation)	A white precipitate is obtained from sample solution combined with AgNO ₃ TS	Conforms
Melting range	167 - 172°C	169-170
Water content (KF)	≤ 1.0% w/w	N. Detected
Residue on ignition	≤ 0.1% w/w	N. Detected
Loss on drying	≤ 1.0% w/w	0.2
Sulphate	≤ 100 ppm	< 100
Heavy metals	≤ 20 ppm	< 20
pH	3.6 - 4.2	3.6
Colour of solution	Less than analytical method standard (C)	Conforms
Assay (titration)	98.0 - 102.0% w/w on dried basis	100.8

Disposition: Meets specifications

Manufacturing date: July 18th, 2016

Retest date: July 18th, 2021

Date: July 27th, 2016

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per: *Chelise Denise*



CERTIFICATE OF ANALYSIS

Material: PROPIN OXIFENIL MANDELATO
DE DIMETIL AMINO ETANO CLORHIDRATO

Lot No: G-70187
Code No: 72455
Lab No: QC-45280

Tested according to: Delmar

<u>TEST</u>	<u>SPECIFICATIONS</u>	<u>RESULTS</u>
Description	White to creamy white powder	Conforms
Foreign material	Essentially free of foreign material	Conforms
Solubility	Soluble in water, alcohol, chloroform and diluted acids; sparingly soluble in acetone; practically insoluble in toluene, ether, ethyl acetate, hexane and diluted alkalis	Conforms
Identification (IR)	IR spectrum conforms to that of the reference standard	Conforms
Identification (precipitation)	A white precipitate is obtained from sample solution combined with AgNO ₃ TS	Conforms
Melting range	167 – 172°C	169-170
Water content (KF)	≤ 1.0% w/w	0.2
Residue on ignition	≤ 0.1% w/w	N. Detected
Loss on drying	≤ 1.0% w/w	N. Detected
Sulphate	≤ 100 ppm	< 100
Heavy metals	≤ 20 ppm	< 20
pH	3.6 – 4.2	3.8
Colour of solution	Less than analytical method standard (C)	Conforms
Assay (titration)	98.0 – 102.0% w/w on dried basis	100.4
Residual solvents (GC)	DMSO ≤ 5000 ppm	N. Detected
	DMF ≤ 880 ppm	N. Detected
Residual solvents (GC- HS)	Toluene ≤ 890 ppm	N. Detected
	IPA ≤ 5000 ppm	120
	Propargyl alcohol ≤ 1500 ppm	N. Detected
	DMC ≤ 1500 ppm	540

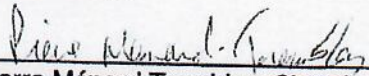
Disposition: Meets specifications

Manufacturing date: July 8th, 2017

Retest date: July 8th, 2022 (5
years at RT)

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Date: September 20th 2017

Approved by: 
Pierre Ménard Tremblay, Chemist
Supervisor/Quality Control

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