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CERTIFICATE OF QUALITY

Product: AMMONIUM CHLORIDE

Grade: ACS GRADE

Code: 0621

Appearance: White granular powder

Mol. Formula: NH4Cl

Mol. Weight: 53.49

Description:

Assay:	<u>Min</u>	<u>Max</u>	<u>Units</u>	Disposition
Calcium		0.001	%	PASS
Heavy Metals (as Pb)		0.0005	%	PASS
Insolubles		0.005	%	PASS
Iron		0.0002	%	PASS
Magnesium		0.0005	%	PASS
pH (5%, Water) @25C	4.5	5.5		PASS
Phosphate		0.0002	%	PASS
Purity	99.5		%	PASS
Residue on Ignition		0.01	%	PASS
Sulfate		0.002	%	PASS

Storage: Store at room temperature. Protect from moisture.

0621ACS This signature indicates that the above material has met all quality

specifications and has been reviewed by a quality representative.

Signature: You Crocke

<u>Title:</u> <u>QC MANAGER</u> Date: <u>6/4/2012</u>