## THE AMALGAMATED SUGAR COMPANY, LLC. CENTRAL LABORATORY TWIN FALLS, IDAHO V

April 13, 2010

## Certificate of Analysis (NF and EP)

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1 1	ustomer:	
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Attn: Product:

Sucrose, (NF and EP)

FAX:

Date of Manufacture: March 08, 2010 V

Lot:	<u>NF</u>		
Test	Requirement	Results/Units	Method Code
Residue on ignition Chloride Sulfate Calcium Specific Rotation/Identification Heavy Metals Invert Sugar	(<0.05%) (<0.0035%) (<0.006%) Solution remains clear for at least 1 minute. (>+65.90°) (<5 ppm) (<112 mg cuprous oxide)	Pass/0.02% Pass/<0.0035% Pass/<0.006% Pass/Clear Pass/+66.44° Pass/<5 ppm Pass/ 60mg	NF 281 NF 221 NF 221 NF NF 781S NF 231 NF
	EP		
Identification by IR	The absorption maxima correspond in position and relative intensity to those in reference spectrum.	Pass	2.2.24
Appearance of Solution	Solution S is clear.	Pass	2.2.1 2.2.38
Conductivity	(Maximum 35uS/cm)	Pass/19uS/cm Pass/+66.44°	2.2.7
Specific Optical Rotation	(+66.3 to +67.0) (Maximum 45)	Pass/28	EP
Colour value	The solution remains yellow.	Pass	ΕP
Dextrins Reducing Sugars	The blue colour does not disappear completely.	Pass	EP
Sulphites	(Maximum 10 ppm)	Pass/<10 ppm	EP
Loss on Drying	(Maximum 0.1%)	Pass/0.019%	2.2.32
Bacterial endotoxins	< 0.25 IU/mg	Pass/<0.25 IU/mg	2.6.14

THIS SUGAR IS CERTIFIED TO MEET SPECIFICATIONS FOR SUCROSE, AS SET FORTH IN THE USP-NF and EP OFFICIAL COMPENDIA OF STANDARDS. VERSIONS: USP 32 NF 27 and EP 6th EDITION-SUPPLEMENT 6.3

Carol L. Wambolt

Date issued

Central Laboratory Supervisor