

**GFS Chemicals, Inc.**  
**Columbus, Ohio 43223**

LOT ANALYSIS

ITEM: 546 ACETIC ACID, REDISTILLED

LOT#:L029081

Test	PASS/FAIL	NUMERICAL RESULT
Assay 99.7% min.	PASS	99.8%
Color (APHA) 10 max.	PASS	<10
Dilution test - pass test	PASS	Passes test
Residue after evaporation 0.0001%	PASS	<0.0001%
Acetic Anhydride 0.01%	PASS	<0.01%
Chloride 0.0001%	PASS	<0.0001%
Sulfate 0.0001%	PASS	<0.0001%
Heavy Metals (Pb) 0.00001%	PASS	<0.00001%
Iron 0.00001%	PASS	<0.00001%
Reducing substances - pass test	PASS	Passes test
Substances reducing permanganate - pass test	PASS	Passes test
Titration base 0.0004meq/g	PASS	<0.0004 meq/g

TRACEABLE TO N.I.S.T. (Y/N)? Y

Comment:

Reported by: Michael McBride

QC Supervisor: Charles Fontaine

Quality Assured to Retest Point: NOT REQUIRED

C/A Print Date: 12/22/2015

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The following analysis is for informational purposes only. It represents a one-time analysis from a concentrated sample.

Concentration in ng/g (ppb)

Al	<500	Ag	<100	As	<100	Au	<20	Ba	10
Be	<10	Bi	<50	Ca	1100	Cd	<20	Ce	<100
Co	<50	Cr	<50	Cu	<300	Fe	1600	Hg	<300
K	<800	Li	<300	Mg	360	Mn	<10	Mo	<10
Na	1100	Ni	<50	Pb	<200	Pt	<500	Sb	<300
Se	<300	Si	<20	Sn	<20	Sr	<10	Ti	<20
V	<30	W	<100	Zn	<100	Zr	<20		

Comment:

Reported by: Roger Duff  
C/A Print Date: 12/22/2015

QC Supervisor: Charles Fontaine

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