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Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT:

Part Number: **54124A**
Lot Number: **112923**
Description: **Total Residual Free Chlorine (Cl)**
Avoid Light, Store at 4ºC.
Expiration Date: 112926
Recommended Storage: Refrigerate (4 ºC)
Nominal Concentration (µg/mL): **1000**
NIST Test Number: 6UTB 5E-05 Balance Uncertainty
Weight shown below was diluted to (mL): 4000.0 0.058 Flask Uncertainty

Solvent: 112923 ASTM Type 1 Water

Lot #

Aleah O'Brady		
Formulated By:	Aleah O'Brady	112923
Pedro Rentas		
Reviewed By:	Pedro L. Rentas	112923

Compound	RM#	Lot Number	Nominal Conc. (µg/mL)	Purity (%)	Uncertainty Purity (%)	Assay (%)	Target Weight (g)	Actual Weight (g)	**Actual Conc. (µg/mL)**	Expanded Uncertainty +/- (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50	NIST SRM
1. Sodium hypochlorite (Cl)	IN181	E622124	1000	99.99	0.20	7.45	53.7328	53.7331	**1000.0**	**4.0**	7681-52-9	NA	NA	NA*

Avoid light.
Store at 4ºC.

N/A* - No NIST SRM is available for this analyte.
CRM status was validated following ISO Guide 34 procedures.
The formulated value is verified by titration.
Standard Methods for the Examination of Water and Wasterwater, 19th Edition, 1995. Method 4500-Cl B Iodometric Method I.

Density @ 22ºC: 1.012g/mL

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Purified acids, 18.2 megohm deionized water, calibrated Class A glassware and the highest purity raw materials are used in the preparation of all standards.
* All standard containers are meticulously cleaned prior to use.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, D.C. (1994).