The same of the sa	
54	Laby 70 wolf mis soft 109 Parter: Link Wayen
	Hypochlonie zon in Bleach
	10/29/2019
	Arelab Assignment
	IO3-48I-46H+ = 3I3-+3H20.
	0.1358g (Imol )= 6.34579x10-4 = 11 kmg=1203
	#03-: 3I3- => 1: 3rahi6 - 37 ( ) 1
	NI3= 1.903737 XIO-3 Mol (a) _
	The state of the s
	28 ( 1mol 100028 gr) = 0.01205 mol KI = 0.01205 mol I-
	81-: 313- => 8:3 rahb
	$\Pi_{z_3} = 4.51875 \times 10^{-3} \text{mo}$ (b)
	1927 1924 1923 43 19 43.16 43.16
	0.002[(6M) = 0.012mol = NHC1 = NH+
	6Ht: 313 => 6:3 ratio.
	$n_{x_3} = 6 \times 10^{-3} \text{ mol}$ (c)
	tor 10/ 12 10 10 10 10 10
	Since nis (a) < (b) < (c), 103 is the limiting reagent.
	The second secon
	$2S_{2}O_{3}^{2} + I_{3}^{2} = S_{4}O_{6}^{2} + 3I^{2}$
	1 rapo 000946
*	ns2032- = 2(1.903787x10-3mol) = 3.867474x10-3
	$[5_{2}0_{3}^{2}] = \frac{3.807474\times16^{-3}\text{mol}}{0.031011} = 0.12 \text{ M}.$
	0.03194F
	MIVI - a
	Mays I dry s appay to 21 dolars & dol 2 mile
da	and o'12 (4 (121833mL) of gue, noitging ab dol 2 inte
alt .	prints Ma (25:00mL) 200 d botton on botton of all
14	12 done to 0.05 M = [ 7-7 ]
144	10 0, 10, 5, 0.05, M, =, [, I3T] on off to soil do!
	from our computer for checking imposes ph the
	anned with
Ca	mScanner

<b>3</b> 6	Labita pulland : rentural lypochlorite ion in Bleach	N	Par 1 Bleac	thors Linh W			
	Part A			9/0	09iK)		
Nonthinen	2) 1/1 9 min 1913 15 of 21 kg	MUNISTA	y ZWH	to 9/00/147	ONT		
200 Hotel	Erlenmeyer flades *	-	1: 100	HID 17 109 P	103		
3 28 3	Mass of KIK(g)	8:1/10		H2.168911	2-1266		
	Beakers *		1	· Doitout	UMAE 3		
254/5UNS 170	Mass of KIO3, solid (g)	0.1	421	10:1249	0.1376		
9d of 16				פול וועל ווכן ליכו	) Will		
	Initial buret reading (ml)			V25 120 10			
	Rinal buret reading (ML)		×96		6-82		
			35	236.653111	1 4		
29 Gmas by	Titrated volume (mc) more			14245 JENIC			
	(MINE Stondard County SIMM)	12vi Du	ibairo	1. Inboin	)time		
chicagorical		Sodium Thiosulfate standardization					
- Mtoy	Erlenmeyer flask#		1	2	3		
. 2963Q1	Mass of KI solid (g)  Mass of KIO <sub>3</sub> solid (g)	-	1.880		2.1266		
1		12	0.1423		0.1376		
et sprodit	Final buret reading (mL)		0.29 42.35	0.23	0.82		
	Titrated volume (mL)		42.33		42.18		
	Molecular weight of KIO <sub>3</sub> (g/	mol)	42.00	214.001	41.36		
	Mole of IO <sub>3</sub> ions (mol)		6.640E-		6.430E-04		
	Mole of I <sub>3</sub> ions (mol)		1.992E-		1.929E-03		
	Mol of S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> ions (mol)		3.984E-		3.858E-03		
	Molarity of Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> solution	(M)	0.0947		0.09328		
MILIOS	to p C Average molarity (M)			0.09472			
Ni sterio	Standard deviation in molari	ty (M)		0.00144			
9H 19)2M	RSD (%)	V. 17	100	1.5			
			( 1990				
	AUTIO : JOHN START : DILLA						
. (10	H Wes Hollinsolutalans 200 90	(198)	· 119W	XIM D 31	ING		
		40					
1 500 B	throsalferte schaffen Reco	Hju.	9 <del>1</del> 19Yyd	JM SS W	NA 6		
	Scanner			ommisu lor	HIAI		

Partier Lan NT day Partner: Linh Nguyen 58 Hypothlanite Ion in Bleach Hyp. Honle Ion in Elecch 10/29/2019 10/29/2019 of marget-arade KI school Happy och of 3 pe v. daish refew to Mumbered 125 mt Grienneuer Hasks. Add - 25, Mi of mid. Erlenmeyer flarks \* 1000 131 M J 10 2m1 3 Mass of KI (g) 1.5865 1.9429 1.7282 Initial buret reading (InL) 42.18 1493 18-95 Final hourst reading CML 70% 6 45-90 18.95,00 mes .49 Fitrated volume (ML) 17 4.02 4.54 3-72 KIO3. **Determination of Hypochlorite in Bleach** Erlenmeyer flask -/ bearer 1 2 3 Mass of KI solid (g) 1.5865 1.9429 1.7282 Initial buret reading (mL) 42.18 14.93 18.95 a-dolor all Final buret reading (mL) 45.90 18.95 23.49 Titrated volume (mL) of northly 3.72 4.02 4.54 Average molarity Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> solution (M) 0.09472 Volume of NaOCI (mL) 2.00 Mole of S<sub>2</sub>O<sub>3</sub><sup>2</sup> ions (mol) 3.523E-04 3.808E-04 4.300E-04 Mole of I<sub>3</sub> ions (mol) 1.762E-04 1.904E-04 2.150E-04 Mole of OCI - (mol) 9H A 1.762E-04 1.904E-04 2.150E-04 Molarity of NaOCI (M) 0.08809 0.09519 0.1075 HAW SHI Average molarity NaOCI (M) 0.09693 Standard deviation molarity NaOCI (M) Add want 0.00982 **RSD (%)** Sulf- Hue 10.1 ( when of trouch - throdich counter disoppeon. Recit ond-point Jm10.8 +290 of 41 8. Individually report sleps 6 x 7 with the remotioning - ULY samples. Generate Codine Miladile just before titraina with this suffere to minimize loss of friedide reaction + K error HE 1055 mont

1	Lab Tages Top 10 Bleach Partner: Link Nguyen 59	
	Hypochlante Ion in Bleach bould in not strake get	
	10/29/249	_
	a bic Determination of Hypochlante	-
		-
	botuen 1.5 a 2.09 of the	-
1	Add ~ 50 mL of 01 water a bounder flasks Stir the solutions to each of 3 250 mL Erlenneyer flasks Stir the solutions	_
10217	until the pot 1/KI in each flash is dissolved	-
		-
	Add ~ 10ML of 3m H2SOx to each flask rate (1)	-10
2.	Add ~ 10ML of six 11200 pt and the acht into one	-
110	Use a pipet to releliver 2.00 mL of liquid bleach into one	
3.	Of the flashe, & stir by suirling the solution. record the	-
100	of the flasher record the	-3
11 14 191	burette with Stande the 13	-
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ad at	formed during The reason of solution a commune	
	edor starts to tade, was and the end-point volume to	_
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Hypochlarife Ion in Bleach 10012 of mil of molar gott Mabiginis i rostro9 60 10/29/2019 Analysis & Desults aget 30 not ogranded of months The calculations for the determination of molarity of throsulfate solution and the liquid bleach are date in excel , as tabulated in the table shown attacked in the book. Tetormula used who as stated in the summary report. Add to 10 mil of 310 Hosey to each flask notation In order to determine the consentration of wquid bleach, the thiosulfate solution has to be prepared. The average Indianty of throsulfate solution is found to be 10.0947211 with a standard devation of 0.00 144m. By using this throsulfate returnon , it is throped into the tropped George El - 1 solution and the molarsty of the breach is found to be sundres & 10:09693M with a standard demapon of 0:00982M. the introping to the endpoint . Record the enci-point volume to - 14110.0 tesicos all + Individually refrest step 3 with the soluboins in Pach o et project ten proposi glassing. Edeat epagnistra 2) Disports of office of the state of the oscilla of the other schikons as indicated. Cheon a cry the lab