		Date
Expt. No	4	Page No
Aim:		
To	prepare and standardization	of oIN of
Box	ic acid (H3BO3).	
Refe	e rence:	
U		
*	Control of the second second second second	
Regi	uisement:-	
Gla	schores: - Beaker, Measuring Conical flask, St	cylinder, Burette,
	Conical flask, st	issing sod, Funnel.
Chei	micals: - (i) Boric Acid (H3B	The state of the s
	(ii) NaOH (Sodium hy	droxide)
	(iii) Phenolph-thalein inc	dicator
211	1	1.
Appo	ratus: - (i) Analytical weight	machine
	(i) Burette stand	
	(iii) Spatula.	
	•	
1he	ory!-	
-T.1	l'a la laborat de la la	10 1
117	ration is a laboratory technique	le that can be used
to	determine the concentration	of cextain solutions
by o	chemical reactions. Any chem	ical that reacts in
Salu	mon can be through with ea	in other. Since
	Teacher's	Signature

		Date
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	acids and bases are are commonly involved in	usually found in solution. They titration.
	using phenolphthalein in	NaOH is a strong base and acid with pH 5.4. We are dicator in this titration to completion. Phenolphthalein gives
	NaOH + H3BO3 →	NaBo ₂ + 2H ₂ O
	Procedure:	
(i)_	wash and dry each gla in this experiment.	sware which are to be used
(ii)	Preparation of 1 N.	f Standard solution of NaOH.
(a)	Weigh 4 gm of Sodiu	m hydroxide (NaOH).
	Put the NaOH in 100 well.	ml distilled water and mix it
(Tii)	Preparation of IN of	sample solution (boxic acid).
(a)	Weigh 6.2 gm of H3BC	13 (boric acid).
(b)	Put it in 100ml distille	ed water and mix it well.
		Teacher's Signature

Observation Table

S. No.	Starting point	End point	Volume consumed
1.0	0.0	117	1.9 least 1.9
2.	1.7	2.8	
3.	2.8	3. 8	1.0

Padecelanes

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					Date
Expt	. No	4			Page No1.5
(iv)	Add	50 ml	of Standard	(Solt (NGOH)	in busette.
(v)	Take	10 ml	of sample	solo (boric as	cid) in
			*		
(VI)	Conica	2.3 d	tops of ph	enolphthalein i	ndicator in
(vii)	Titro Bhas pink.	te it end	with stang	and south until	it gives a its colour to
	Resul	L! -			
		as ation	and stand	lardization of	IN of horic
		*			
			and when		
195				Teacher's Signature _	