Separation up A.	ralaesic Drugs using TLC
Purpose! Thin Layer Chron to help distinguish	MILLERC Drugs Using [ C
to help I'm	matography can be used
Sold in Straguish	different components in a
if " This E	exp. Levill be used to determ
Anacin or Exc	iedin.
Needed Supplies.	
And Applies.	The state of the s
Materials!	Chemicals X 2 ml Ethyl acetate
- Lend pencil	2 ml Ethyl a cetate
- PPE (Glower, glasses, lab cont)	· 1.8 ml Clacial aceric acid &
700 ml Beaker	- 1.8 ml Ethanojk
- 2 TL( plates	* 1.8 ml Dichloro method
" watch glass	A STATE OF THE STA
· 13 X100 Test Tubes	
- Filter	
· V V (amp	the field Paul LAND
· Iodine Chamber	A Vice to the last of the last
· Ruler	Branch Commencer Commencer Systems
Hazards.	
· Ethyl acetate: Flam	mable (avoid flame)
· Dichloromethone. Fla	mable (avoid flame)
· Ethanol · Flamm	whole (avoid flome)
· UV lame don't	expuse skin sight
· Idine is comsi	ve: use uder hood
William Co. American Co.	

Hypothesis Because Silica ger (TLC Plate) is polar, (highly Polar) the more polar compounds will not move as Far up the plate as the less polar compands I predict that the order (from lowest RF the compared will appear will be: 1) carrière 2. Acetaminophen Aspirin 4) Salicylamide It buprofer. The lower the Rx value the less distance it travels. . . Carriere will travel the least and will have the lowest Rx (affeine is most polar because it contains two arrive, two arride, and an alkene group Procedure! Obtain 10x6.6cm TLC plate (silica) -> Draw (with perci From Left to Right: Spot E a cetaminophen, Aspirin, Caffeine Ibuproper and Salicylande JA. (use different capillarys) Pour you While Phase into Hou ml beater until 0.5 (m deep Allow polds Fold Filter paper 2° and Place in beaker, cover with watch glass

Procedure Cartd'.  Place TL ( plate in beaker, without touching Filter  When proble phase reaches as low From top are  Plate, use there eas to remove plate and let  dry on paper formed  The Rober to margure distance From initial liver  to spot.  Precord:  Observe  Calculate  'Sanothing bripped on my Plate (1) Front: 7.5  First TLC Plate	
when mobile phase reaches are I can from top are  Plate, use threezers to remove plate and let  dry on paper formed  mark spots under W lamp (I odine chamber)  Use Ruler to mangure distance from initial is  to spot.  Record:  Observe  Calculate  'Sanething hipped on my  Plate (1) Front: 7.5	
when mobile phase reaches are I can from top are plate, use threezers to remove plate and let day on paper formed  mark spots under Wlamp (I odine chamber)  Use Ruler to margure distance from initial is to spot.  Record:  Observe (alculate)  Sanethry bripped on my Plate (1) Front: 7.5	
Plate, use there sees to remove plate and let dry on paper formel  mark spots under Wlamp (Indine chamber)  Use Ruler to mangure distance from initial liv to spot.  Record:  Observe (calculate)  'Sanothing hipped on my Plate (1) Front: 7.5	
Plate, use there sees to remove plate and let dry on paper formel  mark spots under Wlamp I I ading chamber  Use Ruler to mangure distance from initial liv to spot.  Record:  Observe (calculate)  Front: 7.5	
Plate Use there sees to remove plate and let dry on paper formel  mark spots under Wlamp [Indine chamber  Use Ruler to mangure distance from initial liv to spot.  Record:  Observe (calculate)  Front: 7.5	
mark spots under Wlamp (Indine chamber)  Use Ruler to mangure distance From initial la to spot.  Precord:  Calculate  'Samething bripped on my Plate (1) Front: 7.5	
rook spots under Wamp (Indine chamber  Use Ruler to mangure distance From initial Liv to spot.  Pecard: Observe (calculate)  Sanothing hipped on my Plate (1) Front: 7.5	de la constante de la constant
Use Ruler to mangure distance From instial live to spot.  Record:  Observe (alculate)  Something hipped on my Plate (1) Front: 7.5	il.
Use Ruler to mangure distance From instial live to spot.  Record:  Observe (alculate)  'Sanothing hipped on my Plate (1) front: 7.5	
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Observe Calculate  Sanothing hipped on my Plate (1) Front: 7.5	
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Sanothing bripped on my Plate (1) Front: 7.5	
	C-
mol gallet life aller hand hard har lacety is 3.0 cm	~
· Rolded Filter purer and the princing of	
added acetic acid 0000 (affection oc	Cm
2.0	ocm?
Some sports smaller 17 09 Ibv: 5.5	cm
than others (aceta (asprin) of Sal; c'a 4.	8
Ket: 5, 3.81.	
After UV, some sports	3.0.6
big, Same lanes had	3,0.6
multiple spots	3,0,€

after the acolom.	Cate daying
after the acolon.	1 2 Hola II 2019
is duker under VV	Observed two date Daze
Name of the second seco	los lateries Mada s.
After I ading, Aceta and	water of down water to containing
Sali Cylanide turned	200 29 Je Ku 240/9
yellow	12 ray some of ho
Use Mystery B	I show stop showy
1 Anacin 3.7cm	0.0
	(2) (2) (2)
- Charlo	3.0 Cm PXK, 8W
Small 1 11th 8.0 Ch	5.0 Cm2. 1 4 09% of
CA: 2 4,1244, 12 5.0C	
5 Ref 09 3	0, 5.0
2 Anulas	2012800
· Anacin (3.7 cm) had gh	dut
· Anacin (3.7 cm) had gh	rost shape as
	3-1-19 ) 17 12-19
= Exceden, Tylend, Myster turn	red yellow with Iodine Gom
Rep @ 5cm turned	Lyellow a blid -
	kan Trigge bullio
2005	
5 Small dot	between
67 D0000 3/4	wed wind rulto the
1000	Mystery B looks like
	1 benot

	Spot	Distance (cm)	Color after UV	Color W Table
	Acetaminophe	3.0 a	Purple	Yellow
	Aspirin	4.0	Purple	white
	Curreine	0.6,2:6	Purple	white.
	I buprover	5.5	purphe	white-
	SaliCylamide	4.8	Puple	Yellow-
	Rep	0.6,3,3.8,5	bable	Yellow/white
	^ .	6937	_	
	Aracin	7.5,00	Purple	white-
	Excelin	0.5, 7.0	Pink Purple	Yellow_
	Tylenol	3.0		- tono
	Mystery B	3,0	Purphe	Yellow-
	Rep	0.9,3.0,5.0	Purphe	Yellowhuhite_
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