

## Labware definition to perform validation of Lynx with a Checkit cartridge

1. Select the standard 96 Flat bottom costar definition in Lynx.

ware: 96 FlatBottom - Read Only	>	× Labware: 96 FlatBottom - Read Only	
eneral Plate Layout Well Dimensions Volume Profile Gripper	Refresh View	General Plate Layout Well Dimensions Volume Profile Gripper	Refresh V
Name:         96 Rubitom         Mg:         Costar           Part Number:		Wel Spacing Column Spacing Imm): 9:00 Row Spacing Imm): 9:00 ADI Column Offset From Edge (mm): 14:38 ADI Row Offset From Edge (mm): 11:24 Ppetitor Access Poyntor spacing (mm): 9:mm 4:5 mm ADI Wel Certer To Poynte X Offset (mm): 0:00 0:00	
ibware: 96 FlatBottom - Read Only			
General Plate Layout Well Dimensions Volume Pro	ofile Gripper		Refresh View
Well Shape			
Top Length (mm):     1.00     Top Diameter (m       Well Depth (mm):     10.95     Well Is Circu			
Well Profile Parameters			
Bottom Length (mm): 0.10 Bottom Diame	ter (mm): 6.25		
Radius Ratio: 1.00			
Taper Height (mm): 0.0 Bottom Taper:	Flat Bottom		
Pipettor Access			
TipTouch Offset Z (mm): 3.0			
		ОК	Cancel

## 2. Set the tip load to column 11 to load 1 column of 8 tips, if your head has 96 cones.

checkit kit testing X	Load Tips(96SV) ×
Set Tool Type(965V) Set tool type on (Lynx) to (965V).	Tip box DDX-96-1250F_01 V 🔀 Column: 11 🔄 🗶 Row: 0 🜩 🗶
Set Tip Type(965V) Attach Tip Type 'None' to '965V'	Worktable Tip box
2 Load Tips(965V) Load Tips(965V) from tip box 'DDX-96-1250F_01'	Loc_06 Loc_12 Loc_18 Loc_24 Loc_30 Loc_36 Loc_42
Aspirate(965V) 40.00 uL from '96 FlatBottom_01' using Pipette scheme '5ul/s	Loc_05 Loc_11 Loc_17 Loc_23 Loc_29 Loc_35 Loc_41
4 Dispense(965V) All to '96 FlatBottom_01' using Pipette scheme '5ul/s - Slower	
5 Eject Tips(965V) Eject Tips(965V) into 'DDX-96-1250F_01'	Loc_04 Loc_10 Loc_16 Loc_22 Loc_28 Loc_34 Loc_40
6 Show Message Message: "Flip the Checkit destination column"	Loc_03 Loc_09 Loc_15 Loc_21 Loc_27 Loc_33 Loc_39
	Loc_08 Loc_20 Loc_22 Loc_32 Loc_38 DDX-96-12 96 FlatBotto
	Loc_01 Loc_07 Loc_13 Loc_19 Loc_25 Loc_31 Loc_37
	Well Offsets (mm)     Motion       Height:     0.0       Load Force (%):     30   Motion Move Global Z Before S After S Safe Pathway Disabled
	Motion Profile 10mm/s - Slow Z and tip load X:'300.0 mm/s', Y:'300.0 mm/s', Z:'10.0 mm/s', ZExtend:'10.0 mm/s', ZRetract:'10.0 mm/s'



3. Aspirate the dye in Column 0 at 6 MM height

checkit kit testing 🗙	Aspirate(96SV)	×
Set Tool Type(965V) Set tool t	Plate: 96 FlatBottom_01 V X= Column: 0 🔄 X= Row: 0 🜩 X=	
Set Tip Type(965V) Attach Tip	Worktable Plate Pipettor	Pipetting Command
2 Load Tips(965V) Load Tips(965	Loc_06 Loc_12 Loc_18 Loc_24 Loc_30 Loc_36 Loc_42	Channel Parameters Name: A01 C Enable
3 Aspirate(965V) 40.00 uL from '9	Loc_03 Loc_11 Loc_17 Loc_23 Loc_29 Loc_35 Loc_41	Volume (uL): 40.0
4 Dispense(965V) All to '96 FlatBi		Leading Airgap (uL): 10.0
5 Eject Tips(965V) Eject Tips(965	Loc_04 Loc_10 Loc_16 Loc_22 Loc_28 Loc_34 Loc_40	Post Airgap (uL): 0.0
6 Show Message Message: "Flip 1	Loc_03 Loc_09 Loc_15 Loc_21 Loc_27 Loc_33 Loc_39 Loc_39 Loc_29 Loc_26 Loc_32 Loc_39	Uquid Handling Tip Touch HPC Auto Residual
	DDX.96-12         Loc_08         96 FlatBotto         Loc_19         Loc_28         Loc_32         Loc_38           Loc_01         Loc_07         Loc_13         Loc_19         Loc_23         Loc_31         Loc_37	Liquid Level Tracking Do Liquid Level Tracking Final height (mm): 0.0 Time (s): 0.1
	Well Offsets (mm) Height: 6.0 Y: 0.0 Plate Z Before After X: 0.0 Y: 0.0 Y: 0.0 X	Pipette Scheme Sul/s - Slower V Flow rate: 5.0 ul/s Acceleration: 100.0 ul/s <sup>2</sup>
	Motion Profile         30mm/s - Slow and tip eject         X:'300.0 mm/s', Y:'300.0 mm/s', Z:'30.0 mm/s',         CK         Cancel         XExtend:'30.0 mm/s', ZRetract:'30.0 mm/s',	

4. Dispense to column 11 at 3 MM height, best to use the slow Motion Profile for this.

	testing ×	Dispense(96SV)	
	Set Tool Type(96SV) Set tool type of	2 Plate: 96 FlatBottom_01 🗸 🔀 Column: 11 🔄 🔀 Row: 0 🚖 🔀	
, 7	Set Tip Type(96SV) Attach Tip Type	Worktable Plate Pipettor Pipetting Command	
2	Load Tips(965V) Load Tips(96SV) fro	o Loc_06 Loc_12 Loc_18 Loc_24 Loc_30 Loc_36 Loc_42 Channel Parameters Name: A01	Enable
з 🗳	Aspirate(965V) 40.00 uL from '96 Flat	t Loc_05 Loc_11 Loc_17 Loc_23 Loc_29 Loc_35 Loc_41 Volume (uL): 0.0	X=
4 🕏	Dispense(965V) All to '96 FlatBottom	Post Airgap (uL): 0.0	×=
5	Eject Tips(965V) Eject Tips(96SV) int	t Loc_04 Loc_10 Loc_16 Loc_22 Loc_38 Loc_34 Loc_40 🗹 Dispense	2 All
6	Show Message Message: "Flip the Cl	Loc_03 Loc_09 Loc_13 Loc_21 Loc_27 Loc_39 Liquid Handling	
			o Residual
		DDX-96-12 96 FlatBotto	
		Loc_07 Loc_13 Loc_19 Loc_25 Loc_37 Do Liquid Level Tracking	20
		Final height (mm): 0.0	<b>X</b> = Time (s): 0.1
		Well Offsets (mm) Motion Pipette Scheme	
		Height: 3.0 Move Global Z Before After 5ul/s - Slower	~ X=
		X:     0.0     X:     Y:     0.0     X:     Wove Plate Z     Before     After       X:     0.0     X:     Y:     0.0     X:     X:	
		Motion Profile	
		5mm/s - Very Slow Z 🗸 🗸	
		OK         Cancel         X:'100.0 mm/s', Y:'100.0 mm/s', Z:'5.0 mm/s',           ZExtend:'5.0 mm/s', ZRetract:'5.0 mm/s'         ZRetract:'5.0 mm/s',	

5. Flip the destination Column and perform validation with Checkit.