

To: Daniel Young[dyoung@theranos.com]
From: William Westrick
Sent: Tue 7/9/2013 6:29:39 AM
Importance: Normal
Subject: RE:
Received: Tue 7/9/2013 6:29:40 AM

Additional arms can be added to the existing robots. I'm not sure it's the best option, though.

The fixed tips can be converted to disposable, but it sounds like there are some limitations. I'll have to look into it more. Depending on the protocol, it might make more sense to use fixed tips whenever possible. The disposable tips will add quite a bit of complexity and running cost to the system.

I'm going to run a CV test at a few different volumes on the SAS Tecan once it's operational again.

From: Daniel Young
Sent: Sunday, July 07, 2013 12:53 PM
To: Elizabeth Holmes; William Westrick
Cc: Sunny Balwani
Subject: RE:

Yes, we discussed this on Friday.

William, I have an example protocol for you so we can work on the throughput/speed estimates and see how best to multiplex and parallel process samples. From the info William sent me on Friday, the pipetting speed of our Tecan may be very fast – so mixing may be sped up if this is confirmed for our actual EVO configuration.

Additional questions regarding the pipette on our Tecan:

- Can we get a second or third robot arm on our EVO to improve throughput
- Which tips can be used and what is optimal for us (disposable/small volume)
- Confirm the accuracy/precision of the 8 channel pipette on our EVO

We will also source the needed plate reader/incubator/shaker/microplate stacker as required.

-Daniel

From: Elizabeth Holmes
Sent: Saturday, July 06, 2013 3:10 PM
To: William Westrick
Cc: Daniel Young; Sunny Balwani
Subject:

William:

We want to put you on point on a critical path project. Daniel will be connecting with you (if he hasn't already) on the selection and procurement of additional liquid handling systems for this project. Please focus on getting this done ASAP. It is top priority.

Elizabeth

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