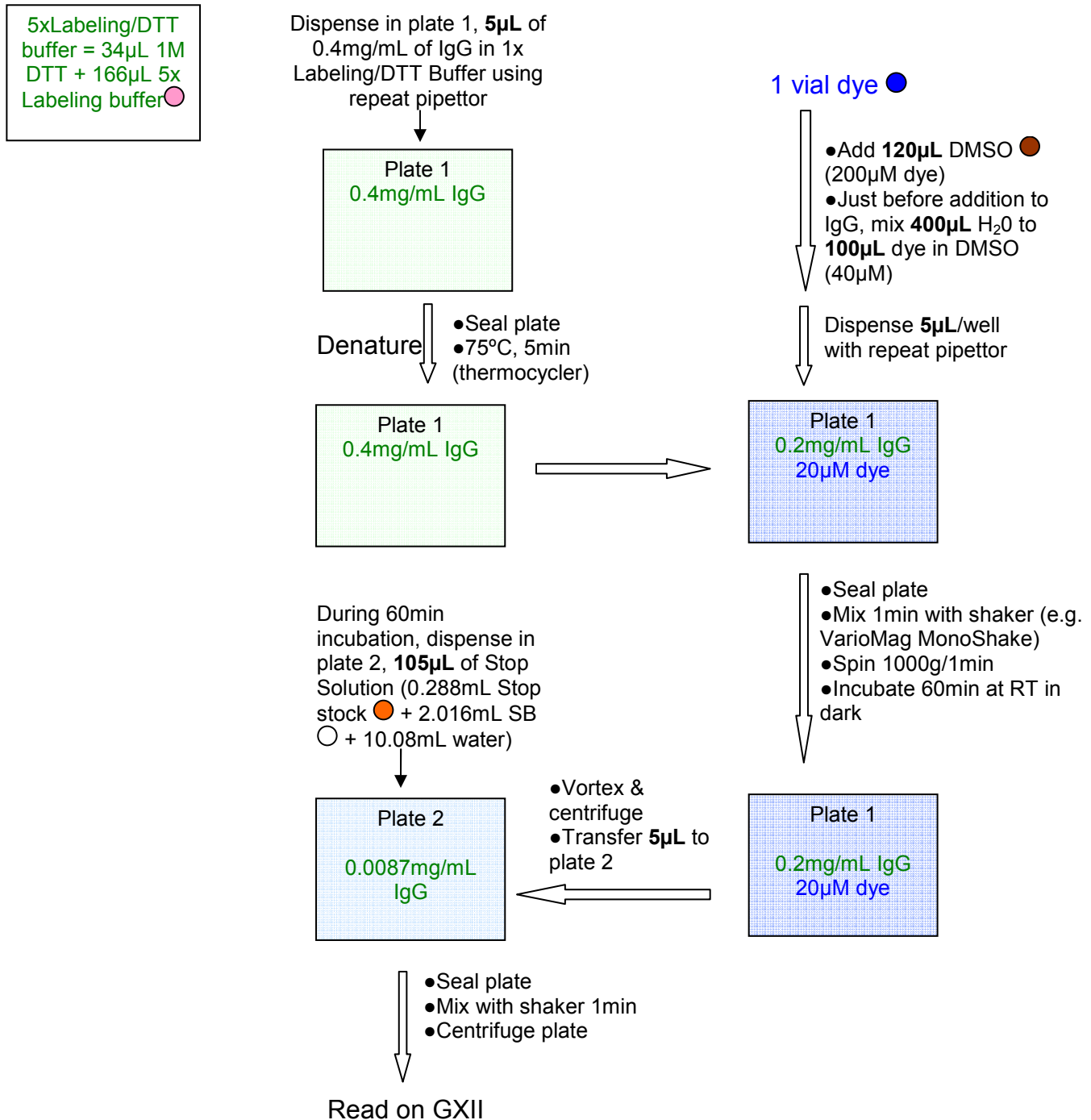


# LabChip GXII Pico Protein Quick Guide

## Flowchart for Reduced Sample Preparation



For full HT Pico Protein Express User Guide, go to <http://www.caliperls.com/products/reagents/labchip-gxgxi-assay-kits/pico-protein-assay.htm>

# LabChip GXII Pico Protein Quick Guide

## Flowchart for Nonreduced Sample Preparation

**5xLB/1M NEM buffer**  
= 20 $\mu$ L 10M NEM in  
DMSO + 14 $\mu$ L water  
+ 166 $\mu$ L 5x Labeling  
buffer

Dispense in plate 1, **5 $\mu$ L** of  
**0.4mg/mL** of IgG in 1x  
Labeling buffer/200mM NEM  
Buffer using repeat pipettor

Plate 1  
**0.4mg/mL IgG**

Denature

- Seal plate
- 75°C, 5min  
(thermocycler)

Plate 1  
**0.4mg/mL IgG**

1 vial dye

- Add **120 $\mu$ L** DMSO  
(200 $\mu$ M dye)
- Just before addition to  
IgG, mix **400 $\mu$ L** H<sub>2</sub>O to  
**100 $\mu$ L** dye in DMSO  
(40 $\mu$ M)

Dispense **5 $\mu$ L**/well  
with repeat pipettor

Plate 1  
**0.2mg/mL IgG**  
**20 $\mu$ M dye**

During 60min  
incubation, dispense in  
plate 2, **105 $\mu$ L** of Stop  
Solution (0.288mL Stop  
stock + 2.016mL SB  
+ 10.08mL water)

Plate 2  
**0.0087mg/mL**  
**IgG**

- Vortex &  
centrifuge
- Transfer **5 $\mu$ L** to  
plate 2

- Seal plate
- Mix 1min with shaker (e.g.  
VarioMag MonoShake)
- Spin 1000g/1min
- Incubate 60min at RT in  
dark



Plate 1  
**0.2mg/mL IgG**  
**20 $\mu$ M dye**

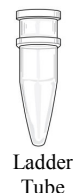
- Seal plate
- Mix with magnetic shaker 1min
- Centrifuge plate

Read on GXII

# LabChip GXII Pico Protein Quick Guide


## Sample Preparation for the Protein Ladder

1. Add 4 $\mu$ L ladder  to 2 $\mu$ L of Pico 5x Labeling Buffer  and 4 $\mu$ L water.
2. Denature at 75°C for 5min in eppendorf tube.
3. Vortex and spin down.
4. Add 5 $\mu$ L of 40 $\mu$ M reconstituted dye in water to 5 $\mu$ L of denatured ladder.
5. Incubate for 60min at room temperature (25°C) in the dark.
6. Add 155 $\mu$ L diluted stop solution to reaction and vortex thoroughly. Spin down reaction.
7. Transfer 120 $\mu$ L of prepared ladder to the provided 0.2mL Ladder Tube.
8. Insert the Ladder Tube into ladder slot on the LabChip GX instrument.



## Chip Preparation Procedures

### Preparing the Buffer Tube

1. Add 750  $\mu$ L of HT Protein Express Wash Buffer  to the 0.75 mL Buffer Tube provided with the reagent kit.
2. Insert the Buffer Tube into the buffer slot on the LabChip GX instrument.

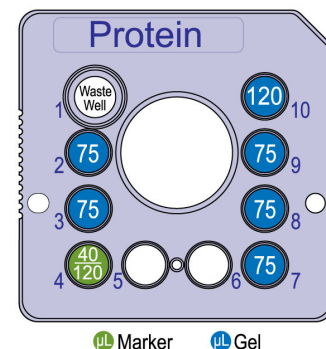


Buffer tube

### Preparing the Protein Chip

1. Add 75  $\mu$ L of Gel solution to chip wells 2, 3, 7, 8 and 9 and 120 $\mu$ L in well 10 using a Reverse Pipetting Technique.
2. If the chip will be used to analyze multiple 96-well plates or will be in use for up to 8 hours, add 120  $\mu$ L of HT Protein Express Lower Marker (green cap) to chip well 4. If the chip will only be used to analyze one 96-well plate or a partial plate and then stored for future use, the marker volume can be reduced to 40  $\mu$ L.
3. Place the chip in the LabChip GX instrument to begin the assay.

### Reagent Placement



Add Marker and Gel according to the image above.

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