

National Glycohemoglobin Standardization Program (NGSP)

NGSP Level II Laboratory Certification Information

ASRL#1

Reference Material Institute for Clinical Chemistry Standards
(ReCCS) Japan
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Purpose: For NGSP Level II Laboratory Certification, laboratories must perform a sample comparison with a Second Reference Laboratory (in the case ASRL#1) following the NGSP Protocol

Specimens (n = 40) Characteristics:

Origin: Human
Contents: Type A: Hemolysed erythrocytes in a physiological solution (not including plasma). Volume of each Type A specimen is 0.1ml.
Type B: Separated and concentrated red cells (not including plasma). Volume of each Type B specimen is 0.05ml.
Type C: Hemolysed whole blood. Volume of each Type C specimen is 0.1ml.

Total Hb concentration: Type A: approximately 10~15 g/dL
Type B: approximately 30 g/dL
Type C: approximately 10~15 g/dL

Precautions:

1. For *in vitro* diagnostic use only.
2. Specimens should be handled with care as handling any biological material of human origin.
3. Take the vials from the freezer and thaw the samples at room temperature. After the sample has been thawed, mix it carefully. Centrifuge the vial (together with other vials) at $600 \times g$ for about 1 min to collect the sample at the bottom of the vial. Use the samples for measurement within 2 hours after thawing.
4. Then you should dilute the samples manually or automatically so that the total Hb concentration of the diluted sample satisfies that required by your analytical system/method.

Procedure:

1. Single measurement of each specimen is run for 40 specimens where the 40 assays should be distributed in at least 5 runs on 5 separate days.
2. Follow the laboratory's routine quality control procedures during these analyses.
3. Record data on Data Sheet #2 at the NGSP Level II laboratory Data Sheets. Please, follow the instructions written there. For obtaining the sheets, please visit [NGSP Cert Packets](http://ngsp.org/cert/Level2info0119.pdf)
[Level20912.xls \(live.com\)](http://ngsp.org/cert/Level2info0119.pdf)
[https://ngsp.org/cert/Level2info0119.pdf](http://ngsp.org/cert/Level2info0119.pdf)
4. Please send the filled NGSP Level II laboratory Data Sheets to both e-mails:
LittleR@health.missouri.edu (Dr. Randie R. Little, NGSP Network Coordinator)
ngspdata@reccs.net (Office of NGSP ASRL#1)

For details, please check the NGSP home page [NGSP Home](http://ngsp.org)

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