



MEMORANDUM

DATE: February 14, 2024

TO: South Carolina Newborn Screening Community

FROM: Jennifer F. Meredith, PhD, HCLD(ABB) *JFM*
 SC DHEC Public Health Laboratory (PHL) Laboratory Director

SUBJECT: Changes to South Carolina (SC) Newborn Screening (NBS) Program's Expected Ranges and Laboratory Report

Effective February 21, 2024, the expected ranges for the Leucine + Isoleucine, Methionine, C5DC + C6OH, and C8 analytes will change. Additionally, the ratio of (C3DC + C4OH)/C10 will no longer be included on the laboratory report. These changes are part of the SC NBS Program’s commitment to continuous improvement. The SC NBS Program monitors test results and determines if adjustments are needed based on population studies.

The current and updated expected ranges are listed in the chart below.

Analyte	Current Expected Range (µmol/L)	Updated Expected Range (µmol/L)
Leucine + Isoleucine	< 275.00	< 325.00
Methionine	< 50.00	< 75.00
C5DC (Glutaryl carnitine)+C6OH (3-Hydroxy-hexanoyl carnitine)	< 0.25	< 0.30
C8 (Octanoyl carnitine)	< 0.30	< 0.50

Please direct any questions to Beth Bair, MS, Chemistry Division Director at bairea@dhec.sc.gov; 803-896-0991 or Tanya Spells, MS, MT(ASCP), NBS Follow up Program Director at spellsty@dhec.sc.gov; 803-898-0619.

Thank you to all our providers and collaborators for your attention to this important update.