

# Reticulocyte Battery

Effective 9/28/2022, UVMHC will begin offering a Reticulocyte Battery, which will include a reticulocyte count as well as the following additional reticulocyte parameters: Reticulocyte Hemoglobin equivalent (RET-He) and Immature Reticulocyte Fraction (IRF).

RET-He provides a measurement of the hemoglobin content of reticulocytes and is useful in diagnosing and monitoring iron deficiency anemia. IRF provides the immature fraction of the absolute reticulocyte count and assesses the maturity of circulating reticulocytes.

New Orderable	Epic Code	Atlas Code	Mayo Access ID	Order LOINC	CPT Code
Reticulocyte Battery	LAB17561	LAB17561	FAH6073	in process	85046
Result Component Name	Epic Code	Atlas Code	Mayo Access ID	Result LOINC	
Reticulocyte Count	12301000146	RET	FAH197	17849-1	
Reticulocyte Hemoglobin	12301018801	12301018801	FAH6074	71694-4	
Immature Reticulocyte Fraction	12301018802	12301018802	FAH6075	33516-6	
Container	Specimen	Temperature	Collect Vol	Submit Vol	Min Vol
Lavender Top (EDTA)	Whole Blood	Refrigerate	2.5 mL	2.5 mL	1.5 mL
Collection Instructions:					
Pediatric Purple (EDTA) is acceptable; minimum volume is 0.5 mL. Stability: Refrigerate (preferred) = 48 hours; Ambient = 24 hours Mix sample well.					

The existing test, Reticulocyte Count, LAB296, will remain available as a stand-alone orderable.

For questions relating to this change, please contact the Medical Director of the Hematology Lab, Dr. Joanna Conant at [Joanna.Conant@uvmhealth.org](mailto:Joanna.Conant@uvmhealth.org).

## References:

Brugnara C, Schiller B, Moran J. Reticulocyte hemoglobin equivalent (Ret He) and assessment of iron-deficient states. Clin Lab Haematol. 2006;28(5):303-308.

Chinudomwong P, Binyasing A, Trongsakul R, Paisooksantivatana K. Diagnostic performance of reticulocyte hemoglobin equivalent in assessing the iron status. J Clin Lab Anal. 2020;34(6):e23225.