TEST NAME	β-hydroxybutyrate/Acetoacetate
TEST CODE	ACETO
LOINC	72603-4, 50099-1
СРТ	82010, 80500
PANEL COMPONENTS	$\beta\text{-hydroxybutyrate,}$ acetoacetate, & $\beta\text{-hydroxybutyrate/acetoacetate}$ ratio
SYNONYMS	β-hydroxybutyrate/acetoacetate ratio
TEST INDICATION	For diagnostic testing of fasting hypoglycemia or after an oral fat tolerance test. The ratio of b-hydroxybutyrate (BOHB) / acetoacetate (AcAc) reflects mitochondrial NAD/NADH, and may be a useful parameter for diagnosis of defects of the Krebs cycle, as a parameter of lipolyis and fatty acid oxidation or to monitor efficacy of ketogenic diets.
METHOD DESCRIPTION	Spectrophotometric enzymatic assays.
COLLECT	
SPECIMEN REQUIREMENTS	Collect 0.5-1 ml blood in an EDTA tube (lavender top), mix gently, and centrifuge as soon as possible after collection. Then transfer the plasma into a polypropylene tube and freeze.
SAMPLE	Plasma or serum
CONTAINER	EDTA plasma (no gel separator), serum red top (no gel separator)
PREFERRED VOLUME	500 μΙ
MINIMUM VOLUME	200 μΙ
TRANSPORT	
SAMPLE	Plasma or serum
PREFERRED VOLUME	500 μΙ
MINIMUM VOLUME	200 μΙ
TEMPERATURE	Frozen on dry ice
HANDLING	Blood should be centrifuged soon after collection and the separated plasma or serum should be frozen at -20°C until assayed.  Acetoacetate is less stable than β-OHB, therefore plasma or serum should not be stored longer than 24 hours at 5°C before freezing.
SHIPPING INSTRUCTIONS	Ship on dry ice
SPECIAL INSTRUCTIONS	Ship overnight
PERFORMED	UHCMC; Mon-Fri
TURN AROUND TIME	5-7 business days