



RESEARCH  
ARTICLE

## Establishment of physio-biochemical profile in Burgur cattle

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**Abstract :** The present study was carried out to establish normal physio-biochemical profiles in hilly breed of Burgur cattle. Blood samples were collected from 3-4 years old, 10 lactating cows in and around the regions of Bargur hills. Haematological parameters such as red blood cells (RBCs), white blood cells (WBCs), hemoglobin concentration (Hb), packed cell volume (PCV), mean corpuscular volume (MCV), mean corpuscular hemoglobin (MCH) and mean corpuscular hemoglobin concentration (MCHC), and differential leukocyte count were assessed from whole blood collected with anticoagulant. Blood samples were collected without anticoagulant and serum was separated and used for biochemical profile analysis such as glucose, total protein, albumin, uric acid, blood urea nitrogen (BUN), creatinine, cholesterol, triglyceride, calcium, inorganic phosphorus, magnesium, sodium, potassium, chloride, alanine transaminase (ALT), Aspartate transaminase (AST), alkaline phosphatase (ALP). Physio-biochemical parameters in Burgur cattle were in normal range except calcium ion concentration which was lower in comparison with other cattle breeds. This study documents the physio-biochemical profile of Burgur cattle.

**Key words :** Burgur cattle, Hilly breed, Physiological, Biochemical parameters

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