

Point of Care Diagnostics for Neonatal Hypoxic Brain Injury

Abstract

Increased S-100 levels have been detected in body fluids such as urine and saliva in traumatic brain injury, ischemic brain damage, stroke etc. The S100 concentration in biological sample could be useful screening tool. Presently, there is no clinically validated point of care diagnostic based on biological fluid marker for neonatal brain injury.

In this project, LFA based point of care diagnostic has been developed for early identification of ischemic brain injury associated with neonatal hypoxia. This device offers a rapid, sensitive, and sustainably produced test that provides unambiguous results at the sample collection point. This device provide easy-to-use diagnostic devices useful in affected resource-poor environments

Salient features:

This device offers a rapid, sensitive, and sustainably produced test that provides unambiguous results at the sample collection point.

Equipment Required:

- (1) Dispensing Systems
- (2) Laminators/Assembly Machines
- (3) Cutting/Slitting Machines
- (4) Cassette Assembly Machines

Product:



Test Results (Negative test – Single Line and Positive test – Two lines)

Estimated Cost of Strip: Rs.180/- per strip (Commercial product likely cost effective)

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