

Table 2. Diagnostic performance of cerebrospinal fluid culture (BACTEC blood culture bottles) and SeptiFast in 62 CSF samples from 42 neurosurgical intensive care unit patients with external ventricular drainage.

Parameter	Result
CSF ⁺ /SF ⁺ , n (%)	17 (27.4)
CSF/SF ⁺ , n (%)	1 (1.6)
CSF ⁺ /SF ⁻ , n (%)	4 (6.4)
CSF ⁻ /SF ⁻ , n (%)	40 (64.5)
CSF ⁺ , n (%)	21 (34.0)
SF ⁺ , n (%)	18 (29.0)
Concordance (%)	91.1
Sensitivity* (%)	80.1
Specificity* (%)	97.6
Positive predictive value* (%)	94.4
Negative predictive value* (%)	90.9
AUC [#] (95% CI) for IL-6 and SF	0.90 (0.83 – 0.98)
AUC [#] (95% CI) for IL-6 and CSF culture	0.70 (0.46 – 0.80)
AUC [#] (95% CI) for lactate and SF	0.77 (0.63 – 0.93)
AUC [#] (95% CI) for lactate and CSF culture	0.65 (0.50 – 0.80)

CSF, cerebrospinal fluid; SF, SeptiFast; EVD, external ventricular drainage; *CSF culture considered to be gold standard; [#]The diagnostic accuracy of IL-6 and lactate for SF and CSF culture was compared by using receiver operating characteristic curve (ROC) analysis; the results were given as area under the curve (AUC); CI, confidence interval.