

Table 1. Limit of detection of several methods for investigation of *Brucella*.

Method	Recognition element	Analyte	LOD (References)
Electrochemical	Aptamer	<i>B. melitensis</i>	10^2 - 10^7 CFU/ml (Bayramoglu et al., 2019)
Electrochemical	Antibody	<i>B. melitensis</i>	1×10^4 CFU/ml (Amini et al., 2018)
Optical (colorimetric)	DNA	<i>B. abortus</i>	10^3 CFU/ml (Pal et al., 2017)
Optical (colorimetric)	DNA	<i>Brucella</i> spp	1.09 pg/ml (Eltzov & Marks, 2016)
Optical (colorimetric)	DNA	<i>B. melitensis</i>	3.32 pg/ml (Sattarahmady et al., 2015)
Optical (colorimetric)	Antibody	<i>B. abortus</i>	450 CFU/ml (Sun et al., 2016)
PCR assay	—	<i>B. melitensis</i>	20 pg (Sattarahmady et al., 2015)
Protein array	—	<i>B. melitensis</i>	1×10^6 CFU/ml (Sattarahmady et al., 2015)
Fluoro-immunosensing system	—	<i>B. melitensis</i>	2.7 μ g/L (Sattarahmady et al., 2015)