

Table S3 – Summary characteristics of included studies which used concurrent validation based on pH.

Study	Reference	Surface	Type of tooth	N surfaces	N patient	Sens	Spec	Acur	DOR
Freitas LA et al., 2016	methyl red dye	approximal	primary	113	56	0.52	0.65	0.59	1.934
Cotta F et al., 2015	methyl red dye	occlusal	permanent	49	33	0.78	0.4	0.51	2.444
Braga MM et al., 2010	methyl red dye	occlusal	primary	50	30	0.78	0.16	0.67	0.733
Ekstrand KR et al., 2007	impression material	all	primary/permanent	176	26	0.84	0.82	0.84	21.956

Sens= sensitivity. Spec= Specificity. Acur=Accuracy (number of true results/number of assessments)