

Table 1 Sensitivity and Specificity of SEPT9 Gene M

Publications	Number of Cases	Sensitivity
Kinga Tóth et al. (2012)	184 (92 CRC, 92 no evidence of disease)	95.6% (95 % CI, 89.2–98.8%)
		79.3% (95 % CI, 69.6-87.1%)
Timothy Robert Church et al. (2014)	1516 (53 CRC, 1457 without CRC)	48.2% (95% CI, 32.4-63.6%)
Nicholas T. Potter et al. (2014)	1544 (44 CRC, 1500 Non-CRC)	68%(95% CI, 53–80%)
X.L. Su et al. (2014)	234(172 CRC, 62 controls)	88.40%
David A. Johnson et al. (2014)	301(101 CRC, 200 Non-CRC)	73.3%(95% CI, 63.9-80.9%)
Peng Jin et al. (2014)	476(135 CRC, 341 Non-CRC)	74.8%(95 % CI, 67.0–81.6%)
Mai-Britt W. Ørntoft et al. (2015)	300 (150 CRC, 150 controls)	73% (95 % CI,64–80 %)
Shahin Behrouz Sharif et al. (2016)	90(45 CRC, 45 controls)	84.40%
Dong Wu et al. (2016)	1031(291 CRC, 740 Non-CRC)	73.00%
		76.6%(95 % CI,71.3-81.4%)
Jiayun Nian et al. (2016)	25 studies, 9927 samples (2975 CRC, 6952 Non-CRC)	71% (95 % CI,67–75 %)

Methylation Assay in CRC Detection			
Specificity	Algorithm	Kit Used	References
84.8% (95 % CI, 75.8–91.4%)	1/3	Epi proColon 2.0	[27]
98.9% (95 % CI, 94.1-100%)	2/3		
91.5% (95% CI, 89.7-93.1%)	1/3	Epi proColon 1.0	[28]
80%(95% CI, 78–82%)	—	Epi proColon 1.0	[29]
93.50%	—	MSP-DHPLC	[30]
81.5%(95% CI, 75.5-86.3%)	—	Epi proColon 1.0	[31]
87.4%(95 % CI, 83.5–90.6%)	2/3	Epi proColon 2.0	[32]
82%(95 % CI, 75–88 %)	1/3	Epi proColon 1.0	[33]
99%	—	MS-HRM Assay	[34]
97.50%	—	Epi proColon 2.0	[35]
95.90%	—	New SEPT9 Assay	
92%(95 % CI, 89–94 %)	2/3	Epi proColon 2.0	[36]