Supplementary Table 3. Molecular test type, index test, reference test, case positivity, sensitivity, and specificity values of diagnostic accuracy studies evaluating the performance of self-sampled CT/GC tests.

Chlamydia trachomatis	Molecular test	Index test	Reference test	Case positivity	Sensitivity (95% CIs)	Specificity (95% CIs)
Arias et al. 2016 ¹	HerSwab + Aptima combo 2	Self-taken vaginal swab	Clinician taken vaginal swab	5.3	76.9	96.0
Bernstein et al. 2011 ²	Aptima combo 2	Self-taken pharyngeal swab	Clinician taken pharyngeal swab	1.1	83.3	99.6
Berry and Stanley 2017 ³	BD Viper XTR	Self-taken penile meatal swab	Self-collected urine sample	8.3	89.4	99.6
Camus et al. 2021 ⁴	Copan ESwab & Cobas 4800	Self-taken vaginal swab	Clinician taken vaginal swab	3.3	100 (N/A)	85.7 (59.8– 100)
Chai et al. 2010 ⁵	Aptima Gen- Probe,	Self-taken urine and ureth	ral	13.0		
Charin et al. 2021 ⁶	Aptima Combo 2	Self-taken urine		1.7		
		Self-taken pharyngeal swa	b	0.9		
		Self-taken rectal		4.3		
Chernesky, M. et al. 2014 ⁷	Aptima combo2	Self-taken cervicovaginal		3.9	100.0	100.0

Cepheid Xpert CT, NG	Self-taken vaginal swab	Clinician taken endocervical swab	9.7	94.3 (84.0– 99.0)	98.9 (98.0– 100.0)
Abbott Real Time (RT) CT, NG assay	Self-taken urine at home next day	Self-taken urine at clinic	1.3	85.7	99.3
Not specified	Self-taken urine or vaginal swab		6.3		
Aptima combo 2	Self-taken vaginal swab	Clinician taken endocervical swab	2.9	85.7	100.0
Aptima Combo 2	Self-taken wet vaginal swab	Clinician taken vaginal swab	3.5	45.45	97.68
	Self-taken dry vaginal swab		0.5	9.09	99.74
COBAS 4800	Self -taken urine		0.8		
CT/NG	Self-taken rectal		2.9		
COBAS Amplicor CT, NG Test	Self-taken cervicovaginal		11.3		
Aptima 2 combo	Self-taken cervical	Self-taken urine		86.7	99.1
Aptima Gen- Probe,	Self-taken vaginal and rect	al	12.7		
	Abbott Real Time (RT) CT, NG assay Not specified Aptima combo 2 Aptima Combo 2 COBAS 4800 CT/NG COBAS Amplicor CT, NG Test Aptima 2 combo Aptima Gen-	Abbott Real Time (RT) CT, NG assay Not specified Self-taken urine at home next day Not specified Self-taken urine or vaginal swab Aptima combo Self-taken vaginal swab Self-taken dry vaginal swab Self-taken dry vaginal swab COBAS 4800 CT/NG Self-taken urine Self-taken urine Self-taken urine Self-taken rectal COBAS Amplicor CT, NG Test Aptima 2 combo Aptima Gen- Self-taken vaginal and rect	Abbott Real Time (RT) CT, NG assay Not specified Self-taken urine or vaginal swab Aptima combo 2 Aptima Combo 2 Aptima Combo 2 Aptima Combo 2 Aptima Combo CT/NG Self-taken urine or vaginal swab Self-taken wet vaginal swab Self-taken dry vaginal swab COBAS 4800 CT/NG Self-taken urine Self-taken urine Self-taken urine Self-taken urine Self-taken urine Self-taken urine Self-taken rectal COBAS Amplicor CT, NG Test Aptima 2 combo Aptima Gen- Self-taken vaginal and rectal	Abbott Real Time (RT) CT, NG self-taken urine at home next day self-taken urine at clinic sasay Not specified Self-taken urine or vaginal swab Aptima combo Self-taken vaginal swab Clinician taken endocervical swab Aptima Combo Self-taken wet vaginal swab Self-taken dry vaginal swab COBAS 4800 Self-taken urine Self-taken urine swab COBAS Self-taken rectal Self-taken urine COBAS Amplicor CT, NG Test Aptima 2 Self-taken cervicol Self-taken urine Aptima Gen- Self-taken vaginal and rectal 12.7	Abbott Real Time (RT) CT, NG sasay Not specified Self-taken urine or vaginal swab Aptima combo 2 Self-taken wet vaginal swab Self-taken dry vaginal swab COBAS 4800 CT/NG Self-taken urine COBAS Amplicor CT, NG Test Aptima 2 combo Aptima Gen- Self-taken cervical Self-taken urine Self-taken urine or vaginal swab Clinician taken endocervical swab Clinician taken vaginal swab Clinician taken vaginal swab Clinician taken vaginal swab Self-taken dry vaginal swab Self-taken urine 0.8 CT/NG Self-taken urine 0.8 Self-taken urine 0.8 Self-taken urine 0.8 Self-taken vaginal swab COBAS Self-taken cervicovaginal Self-taken urine 0.8 Self-taken cervicovaginal 11.3 Aptima 2 Self-taken vaginal and rectal 12.7

Lockhart et al. 2018 ¹⁷	Aptima Cervical Specimen Collection and Transport cytobrush	Self-taken cervicovaginal cytobrush	Clinician-taken cervicovaginal	2.7	92.9	98.7
Mabonga et al. 2021 ¹⁸	ProbeTecTM ET CT, NG test;	Self-taken vaginal and urin	e	1.7		
Masek et al. 2009 ¹⁹	Aptima combo 2 or Probetec SDA	Self-taken vaginal	Both test having concordant results	7.5	100.0	98.2
Nodjikouambaye et al. 2019 ²⁰	Allplex STI Essential Assay, Seegene,	Self-taken veil-based cervicovaginal	Clinician taken endocervical swab	1.2	100.0	99.6
Perkins et al.	Not reported	Self-taken rectal, pharynge	al and urine (men)	10.7		
2013 ²¹	Not reported	Self-taken rectal, pharynge	, ,	12.9		
Platteau et al. 2022 ²²	Abbott RealTime CT/NG assay	Self-taken urine or rectal so	wab	5.2		
Rahib et al.	Cobas R PCR	Self-taken rectal swab		7.2		
2022^{23}	Dual Swab	Self-taken pharyngeal swal	b	1.8		
	Sample Kits or Abbott R multi- Collect Specimen Collection Kit	Self-taken urine		1.9		

Regimbal-Éthier et al. 2018 ²⁴	and Copan UriSwab TM Not specified	Not specified		6.5		
Sambri et al. 2013 ²⁵	Anyplex II STI-7	Self-taken vaginal		2.6		
Schick et al. 2015 ²⁶	COBAS Amplicor CT, NG Test	Self-taken pharyngeal, va	ginal, and rectal	6.8		
Sexton et al. 2013 ²⁷	Aptima combo 2	Self-taken rectal swab	Clinician taken rectal swab	11.6	100.0	98.8
		Self-taken pharyngeal swab	Clinician taken pharyngeal swab	0.8	100.0	99.5
Shipitsyna et al. 2013 ²⁸	AmpliSens Ct, GC MULTIPRIME- FRT	Self-taken urine		6.5		
Silva al. 2020 ²⁹	Metabion	Self-taken vaginal		6.6		
van de Wijgert et al. 2006 ³⁰	COBAS Amplicor CT, NG Test	Self-sampled vaginal tampon	Clinician-collected vaginal swab	8.8	90.9 (80.9–100)	97.0 (94.9– 99.0)
		Self-sampled vaginal swab	Clinician-collected vaginal swab	9.0	80.0 (66.9– 93.1)	98.9 (97.7– 100)

Van der Helm et al. 2009 ³¹	COBAS Amplicor CT, NG Test	Self-taken rectal swab (MSM)	Clinician-taken rectal	9.5	87.6 (81.0- 91.0)	98.9 (98.0– 99.0)
		Self-taken rectal swab (women)	Clinician taken rectal	8.3	88.2 (80.0– 93.0)	98.9 (98.0– 99.0)
Weng et al. 2022 ³²	Cobas® 4800 CT/NG	Self-taken urine		4.3		
		Self-taken rectal swab		31.3		
Wiesenfeld et al. 2001 ³³	Amplicor	Self-taken vaginal		8.0		
Wilson et al. 2020 ³⁴	Aptima combo 2	Self-taken rectal swab	Clinician taken rectal swab	13.5	97.2 (94.3– 98.9)	99.8 (99.4– 100.0)
		Self-taken pharyngeal swab	Clinician taken pharyngeal swab	3.3	93.7 (84.5– 98.2)	99.8 (99.5– 100.0)
Wilson et al. 2020 ³⁵	Aptima combo 2	Self-taken triple swab analyzed individually	Clinician taken triple swab	15.3	99.6 (98.0– 100.0)	99.5 (99.1– 99.8)
		Self-taken vulvovaginal swab (VVS) or first-catch urine (FCU)	Clinician taken pharyngeal and rectal swab	12.1	79.2 79.2 (73.9–83.9)	99.9 (99.6– 100.0)
		Self-taken triple swab pooled and analyzed together	Clinician taken triple swab pooled and analyzed together	14.8	96.0 (93.0– 98.0)	99.5 (99.1– 99.8)

Wong et al. 2022 ³⁶	Aptima Combo 2	Self-taken rectal swab		8.5		
		Self-taken urine		2.5		
Wood et al. 2014 ³⁷	Aptima combo2	Self-taken rectal, pharynge	al and urine (women)	13.3		
Neisseria gonorrhoe	ae					
Arias et al. 2016 ¹	HerSwab + Aptima combo 2	Self-taken vaginal swab	Clinician taken vaginal swab	1.1	100.0	98.4
Bernstein et al. 2011 ²	Aptima combo 2	Self-taken pharyngeal swab	Clinician taken pharyngeal swab	6.1	90.6	97.1
Berry and Stanley 2017 ³	BD Viper XTR	Self-taken penile meatal swab	Self-collected urine sample	2.6	92.9	99.5
Camus et al. 2021 ⁴	Copan ESwab & Cobas 4800	Self-taken vaginal swab	Clinician taken vaginal swab	1.0	99.9 (99.7– 100)	100 (N/A)
Chai et al. 2010 ⁵	Aptima Gen- Probe,	Self-taken urine and urethr	al	1.0		
Chernesky, M. et al. 2014 ⁷	Aptima combo2	Self-taken cervicovaginal		0.4	100.0	100.0
Chinnock, B. et al. 2020 ⁸	Cepheid Xpert CT, NG	Self-taken vaginal swab	Clinician taken endocervical swab	7.4	97.4 (88.0– 99.0)	99.8 (99.0– 100.0)
Charin et al. 2021 ⁶	Aptima Combo 2	Self-taken urine		0.5		

		Self-taken pharyngeal swab		2.8		
		Self-taken rectal		2.2		
De Baetselier et al. 2019 ⁹	Abbott Real Time (RT) CT, NG assay	Self-taken Urine at home next day	Self-taken urine at clinic	1.5	100.0	99.6
Grabert et. al 2022 ¹²	Aptima Combo 2	Self-taken wet vaginal swab	Clinician taken vaginal swab	2.0	50.00	99.23
		Self-taken dry vaginal swab		2.8	60.00	98.71
Harvey-Lavoie et al. 2021 ¹³	COBAS 4800 CT/NG	Self -taken urine		0.4		
		Self-taken rectal		2.9		
Holland-Hall et al. 2002 ¹⁴	COBAS Amplicor CT, NG Test	Self-taken endocervical		8.5		

Kanji et al. 2016 ¹⁵	Aptima 2 combo	Self-taken cervical	Self-taken urine		100.0	100.0
Ladd et al. 2014 ¹⁶	Aptima Gen- Probe,	Self-taken vaginal and rect	Self-taken vaginal and rectal			
Lockhart et al. 2018 ¹⁷	Aptima Cervical Specimen Collection and Transport cytobrush	Self-taken cervicovaginal cytobrush	Clinician-taken cervicovaginal	1.3	96.2	99.6
Mabonga et al. 2021 ¹⁸	ProbeTecTM ET CT, NG test;	Self-taken vaginal and urin	e	2.2		
Masek et al. 2009 ¹⁹	Aptima combo 2 or Probetec SDA	Self-taken vaginal	Both tests having concordant results	1.2	100.0	99.7
Nodjikouambaye et al. 2019 ²⁰	Allplex STI Essential Assay, Seegene,	Self-taken veil-based cervicovaginal	Clinician taken endocervical swab	0.8	100.0	100.0
Perkins et al.	Not reported	Self-taken rectal, pharynge	, ,	8.5		
2013 ²¹ Platteau et al.	Not reported Abbott	Self-taken rectal, pharynge Self-taken urine or rectal st	` ´	3.0		
2022 ²²	RealTime	Sen-taken unne of fectal s	wau			
Rahib et al. 2022 ²³	CT/NG assay Cobas R PCR Dual Swab	Self-taken rectal swab		0.7		
	Sample Kits or			4.3		

	Abbott R multi- Collect Specimen Collection Kit and Copan UriSwab TM					
		Self-taken pharyngeal swa	ab			
Rahib et al.	COBAS 6800	Self-taken urine		7.2		
2019^{38}				0.5		
Regimbal-Éthier et al. 2018 ²⁴	Not specified	Not specified		0.0		
Sambri et al. 2013 ²⁵	Anyplex II STI-7	Self-taken vaginal		0.0		
Schick et al. 2015 ²⁶	COBAS Amplicor CT,	Self-taken pharyngeal, vaginal and rectal	Clinician taken rectal swab	5.1	100.0	96.9
Sexton et al. 2013 ²⁷	NG Test Aptima combo 2	Self-taken pharyngeal swab	Clinician taken pharyngeal swab	6.3	95.8	97.1
Shipitsyna et al. 2013 ²⁸	AmpliSens Ct, GC MULTIPRIME- FRT, AmpliSens Ct, GC MULTIPRIME-	Self-taken vaginal		0.6		
Silva al. 2020 ²⁹	FRT Metabion	Self-taken vaginal		1.3		

van de Wijgert et al. 2006 ³⁰	COBAS Amplicor CT, NG Test	Self-sampled vaginal tampon	Clinician-collected vaginal swab	6.1	87.5 (73.9– 100)	97.0 (95.1– 99.0)
		Self-sampled vaginal swab	Clinician-collected vaginal swab	6.3	87.5 (73.9– 100)	98.0 (96.3– 99.6)
Van der Helm et al. 2009 ³¹	COBAS Amplicor CT,	Self-taken rectal swab (MSM)	Clinician taken rectal	6.2	87.9 (78.0– 94.0)	98.3 (97.0– 99.0)
	NG Test	Self-taken rectal swab (women)	Clinician taken rectal	1.6	84.6 (58.0– 96.0)	99.7 (99.0– 100.0)
Wiesenfeld et al. 2001 ³³	Amplicor	Self-taken vaginal		2.0		
Weng et al. 2022 ³²	Cobas® 4800 CT/NG	Self-taken urine		0.7		
		Self-taken rectal swab		9.4		
Wilson et al. 2020 ³⁴	Aptima combo 2	Self-taken rectal swab	Clinician taken rectal swab	4.5	97.6 (91.6– 99.7)	99.6 (99.2– 99.9)
		Self-taken pharyngeal swab	Clinician taken pharyngeal swab	3.9	95.8 (88.3– 99.1)	99.8 (99.5– 100.0)
Wilson et al. 2020 ³⁵	Aptima combo 2	Self-taken triple swab analyzed individually Self-taken Vulvovaginal swab(VVS) or first-catch urine(FCU)	Clinician taken triple swab Clinician taken VVS, FCU	6.4	98.3 (93.9– 99.8 63.7 (54.1– 72.6)	99.5 (99.0– 99.8) 100.0 (99.8– 100.0)

Wong et al. 2022 ³⁶	Aptima Combo 2	Self-taken triple swab pooled and analyzed together Self-taken rectal swab	Clinician taken triple swab pooled and analyzed together	6.8	98.2 (99.5– 100.0)	99.8 (92.3– 99.1)
		Self-taken urine		1.6		
Wood et al. 2014 ³⁷	Aptima combo2	Self-taken rectal, pharyngeal and urine (women)		6.3		

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