



510(k) Summary

K081824

**BD ProbeTec™ *Chlamydia trachomatis* (CT) Q^x
Amplified DNA Assay**

DEC 11 2008

Applicant	BD Diagnostic Systems 7 Loveton Circle Sparks, MD 21152
Establishment Registration No.	1119779
Contact Person	Kathryn Babka Carr, RAC tel. 410-316-4260 fax. 410-316-4041 Kathy_Carr@bd.com
Summary Date	December 1, 2008
Proprietary Name	BD ProbeTec™ <i>Chlamydia trachomatis</i> (CT) Q ^x Amplified DNA Assay
Generic Name	DNA probe, nucleic acid amplification, Chlamydia
Classification	Class I
Classification Name	Chlamydia serological reagents
Regulation Number	866.3120
Product Code	MKZ
Predicate Devices	BD ProbeTec ET CT/GC Amplified DNA Assay (K984631), APTIMA Combo 2 Assay (K003395)

Device Description

The **BD ProbeTec CT Q^x Amplified DNA Assay** is based on the simultaneous amplification and detection of target DNA using amplification primers and a fluorescently-labeled detector probe. The reagents for SDA are dried in two separate disposable microwells: the Priming Microwell contains the amplification primers, fluorescently-labeled detector probe, nucleotides and other reagents necessary for amplification, while the Amplification Microwell contains the two enzymes (a DNA polymerase and a restriction endonuclease) that are required for SDA. The **BD Viper™** System pipettes a portion of the purified DNA solution from each Extraction Tube into a Priming Microwell to rehydrate the contents. After a brief incubation, the reaction mixture is transferred to a corresponding, pre-warmed Amplification Microwell which is sealed to prevent contamination and then incubated in one of the two thermally-controlled fluorescent readers. The presence or absence of *C. trachomatis* DNA is determined by calculating the peak fluorescence (Maximum Relative Fluorescent Units (MaxRFU)) over the course of the amplification process and by comparing this measurement to a predetermined threshold value.

In addition to the fluorescent probe used to detect amplified *C. trachomatis* target DNA, a second labeled oligonucleotide is incorporated in each reaction. The Extraction Control (EC) oligonucleotide is labeled with a different dye than that used for detection of the *C. trachomatis*-specific target and is used to confirm the validity of the extraction process. The EC is dried in the Extraction Tubes and is rehydrated



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upon addition of the specimen and extraction reagents. At the end of the extraction process, the EC fluorescence is monitored by the **BD Viper** System and an automated algorithm is applied to both the EC and *C. trachomatis*-specific signals to report results as positive, negative, or EC failure.

Intended Use

The **BD ProbeTec™** CT Q^x Amplified DNA Assay, when tested with the **BD Viper™** System in Extracted Mode, uses Strand Displacement Amplification technology for the direct, qualitative detection of *Chlamydia trachomatis* DNA in clinician-collected female endocervical and male urethral swabs, patient-collected vaginal swab specimens (in a clinical setting), and male and female urine specimens. The assay is indicated for use with asymptomatic and symptomatic individuals to aid in the diagnosis of chlamydial urogenital disease.

Summary and Principles of Operation

When used with the **BD Viper** System, the **BD ProbeTec** CT Q^x Amplified DNA Assay (CT Q^x Assay) involves automated extraction of DNA from clinical specimens through the chemical lysis of cells, followed by binding of DNA to para-magnetic particles, washing of the bound nucleic acid and elution in an amplification-compatible buffer. When present, *C. trachomatis* DNA is then detected by Strand Displacement Amplification (SDA) of a specific target sequence in the presence of a fluorescently labeled detector probe.

Analytical Performance Characteristics

Limit of Detection (Analytical Sensitivity)

The Limits of Detection (LODs) for the CT Q^x Assay with *C. trachomatis* serovar H in urine and swab specimens when extracted on the **BD Viper** System were determined to be ≤ 15 CT elementary bodies (EB) per mL for neat and UPT treated urine and ≤ 30 CT EB per mL for expressed vaginal and endocervical swab specimens. A correlation of EB to IFU suggests that the CT Q^x assay LODs with serovar H in urine and swab specimens correspond to ≤ 1 IFU per mL (15). The CT Q^x Assay on the **BD Viper** System in extracted mode was able to detect 16 CT serovars with $\geq 95\%$ proportion positive at a concentration of 15 EB per mL in Q^x Swab Diluent.



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Analytical Specificity

The 141 organisms listed in **Table 1** were tested with the **BD ProbeTec CT Q^x Amplified DNA Assay** on the **BD Viper System**. All potential cross-reactive species were tested at $\geq 1 \times 10^8$ cells/mL except where noted. The CT Q^x Assay did not cross-react with any of the organisms tested.

<i>Acinetobacter calcoaceticus</i>	Epstein Barr Virus ***	<i>Peptostreptococcus productus</i>	<i>Neisseria elongata</i> subsp. <i>nitroreducens</i> (2)
<i>Acinetobacter lwoffii</i>	<i>Escherichia coli</i>	<i>Plesiomonas shigelloides</i>	<i>Neisseria elongata</i>
<i>Actinomyces israelii</i>	<i>Flavobacterium meningosepticum</i>	<i>Propionibacterium acnes</i>	<i>Neisseria flava</i> (4)
Adenovirus***	<i>Gardnerella vaginalis</i>	<i>Providencia stuartii</i>	<i>Neisseria flavescens</i> (4)
<i>Aeromonas hydrophilia</i>	<i>Gemella haemolysans</i>	<i>Pseudomonas aeruginosa</i>	<i>Neisseria gonorrhoeae</i>
<i>Alcaligenes faecalis</i> *	<i>Haemophilus influenzae</i>	<i>Salmonella minnesota</i>	<i>Neisseria lactamica</i> (7)
<i>Bacillus subtilis</i> *	Herpes Simplex Virus **	<i>Salmonella typhimurium</i>	<i>Neisseria meningitidis</i> (12)
<i>Bacteroides fragilis</i>	Human papillomavirus (16 and 18)***	<i>Staphylococcus aureus</i>	<i>Neisseria mucosa</i> (5)
<i>Candida albicans</i> *	<i>Kingella kingae</i>	<i>Staphylococcus epidermidis</i>	<i>Neisseria perflava</i> (8)
<i>Candida glabrata</i> *	<i>Klebsiella pneumoniae</i>	<i>Streptococcus agalactiae</i>	<i>Neisseria polysaccharea</i> (2)
<i>Candida tropicalis</i> *	<i>Lactobacillus acidophilus</i> *	<i>Streptococcus mitis</i>	<i>Neisseria sicca</i> (5)
<i>Chlamydia pneumoniae</i> ****	<i>Lactobacillus brevis</i>	<i>Streptococcus mutans</i>	<i>Neisseria subflava</i> (15)
<i>Chlamydia psittaci</i> *	<i>Lactobacillus jensenii</i> *	<i>Streptococcus pneumoniae</i> *	<i>Neisseria weaverii</i> (3)
<i>Citrobacter freundii</i>	<i>Listeria monocytogenes</i>	<i>Streptococcus pyogenes</i>	
<i>Clostridium perfringens</i>	<i>Mobiluncus mulieris</i>	<i>Streptomyces griseus</i> **	
<i>Corynebacterium renale</i>	<i>Moraxella lacunata</i> *	<i>Trichomonas vaginalis</i> **	
<i>Cryptococcus neoformans</i> *	<i>Moraxella osloensis</i>	<i>Veillonella parvula</i>	
Cytomegalovirus**	<i>Morganella morganii</i>	<i>Vibrio parahaemolyticus</i>	
<i>Edwardsiella tarda</i>	<i>Mycobacterium gordonae</i>	<i>Yersinia enterocolitica</i>	
<i>Enterobacter cloacae</i>	<i>Mycobacterium smegmatis</i>	<i>Branhamella catarrhalis</i> (5)	
<i>Enterococcus faecalis</i>	<i>Peptostreptococcus anaerobius</i>	<i>Neisseria cinerea</i> (2)	
<i>Enterococcus faecium</i>	<i>Peptostreptococcus asaccharolyticus</i>	<i>Neisseria elongata</i> ss <i>glycolytica</i>	

(n) number of strains tested in the **BD ProbeTec CT Q^x Assay**

* Tested at $>1 \times 10^7$ cells/mL; **Tested at $>1 \times 10^6$ cells or viral particles per mL; ***Tested at $\geq 1 \times 10^8$ genomic equivalents per mL;

**** tested at $\geq 1 \times 10^7$ TCID₅₀/mL



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Interfering Substances

Potential interfering substances which may be encountered in swab and/or urine specimens were extracted from urine and vaginal swab matrix in the absence and presence of CT target (30 CT EBs/mL for urine and 90 CT EBs/mL for swabs) and tested with the BD ProbeTec CT Q^x Amplified DNA Assay on the BD Viper System. Results are summarized in Table 2.

Table 2: Interfering Substances

Interpretation	Swab	Urine
No Interference Observed	Blood ($\leq 60\%$) Seminal Fluid Mucus Over The Counter vaginal products and contraceptives Hemorrhoidal cream Prescription vaginal treatments Leukocytes (1×10^6 cells/mL) 1×10^6 cells/mL <i>Neisseria gonorrhoeae</i>	Blood (1%) Seminal fluid Mucus Antibiotics Analgesics Over The Counter deodorant sprays and powders Hormones Leukocytes Albumin < 1 mg/mL Glucose Acidic urine (pH 4.0) Alkaline urine (pH 9.0) Bilirubin Organisms associated with Urinary Tract Infections
May cause extraction control (EC) failures	Blood ($> 60\%$)	Not observed

Clinical Performance Characteristics

Clinician-collected endocervical and male urethral swab specimens, patient-collected vaginal swab specimens (in a clinical setting), and male and female Q^x UPT and neat urine specimens were collected from 1059 female subjects and 479 male subjects attending OB/GYN, sexually transmitted disease (STD) and family planning clinics at seven geographically diverse clinical sites in North America. Subjects were classified as symptomatic if they reported symptoms such as dysuria, urethral discharge, coital pain/difficulty/bleeding, testicular or scrotum pain/swelling, abnormal vaginal discharge, or pelvic/uterine/adnexal pain. Subjects were classified as asymptomatic if they did not report symptoms. Sixty five female subjects and 7 male subjects were excluded from the data analysis due to age requirement violations, antibiotic treatment in the last 21 days, opting to withdraw from the study after initially consenting, failure to obtain paired swab and urine specimens, urine quantity less than 20 mL, or transport and storage errors related to specimen collection. Therefore, the final data analysis included 994 compliant female subjects and 472 compliant male subjects.



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Five specimens were collected from each of the 994 eligible female subjects. A urine specimen was collected and split into Q^x UPT, neat urine and the two reference urine specimen collection devices followed by a vaginal swab specimen and three randomized endocervical swab specimens. Up to four specimens were collected from each of the 472 eligible male subjects. Up to three randomized urethral swab specimens were collected followed by a urine specimen that was split into Q^x UPT, neat urine and the two reference urine specimen collection devices. **BD ProbeTec CT Q^x** assay results were generated from the Q^x UPT and neat urine specimens, the vaginal swab specimen, one endocervical swab specimen and one male urethral swab specimen. The remaining two endocervical swab specimens, up to two male urethral swab specimens, and the two reference urine specimens for each male and female subject were tested using two reference methods: the **BD ProbeTec ET CT/AC** assay and another commercially available NAAT (Nucleic Acid Amplification Test). Specimen testing was conducted either at the site of specimen collection or at a designated **BD Viper** testing site.

All performance calculations were based on the total number of **BD ProbeTec CT Q^x** assays results for endocervical, vaginal and male urethral swab specimens, and male and female Q^x UPT and neat urine specimens compared to a patient infected status (PIS) algorithm for each gender. In the algorithm, the designation of a subject as being infected with CT or not was based on endocervical swab and urine specimen results from the commercially available **BD ProbeTec ET CT/AC** assay and the other commercially available NAAT. Subjects were considered infected with CT if two of the four endocervical swab and urine specimens (or two of the three or four urethral swab and urine specimens) tested positive in the **BD ProbeTec ET CT/AC** assay and the other reference NAAT (one specimen testing positive in each NAAT). Subjects were considered non-infected if less than two reference NAAT results were positive. A total of 5388 **BD ProbeTec CT Q^x** Assay results was used to calculate sensitivity and specificity. Sensitivity and specificity by specimen type and symptomatic status are presented in **Table 3**.



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**Table 3: CT Q^x Assay Performance Compared to Patient Infected Status
(by specimen type and symptomatic status)**

Specimen Type	Symptomatic	N	Sensitivity	95% C.I.	Specificity	95% C.I.	PPV%	NPV%	Error Initial/Final
FS	N	450	93.0% (53/57)	(83.0% - 98.1%)	98.0% (385/393)	(96.0% - 99.1%)	86.9	99.0	2/0
	Y	543	89.7% (52/58)	(78.8% - 96.1%)	98.6% (478/485)	(97.0% - 99.4%)	88.1	98.8	1/1
	Total	993	91.3% (105/115)	(84.6% - 95.8%)	98.3% (863/878)	(97.2% - 99.0%)	87.5	98.9	3/1
FV	N	449	98.2% (56/57)	(90.6% - 100.0%)	99.5% (390/392)	(98.2% - 99.9%)	96.6	99.7	0/0
	Y	544	94.8% (55/58)	(85.6% - 98.9%)	99.0% (481/486)	(97.6% - 99.7%)	91.7	99.4	0/0
	Total	993	96.5% (111/115)	(91.3% - 99.0%)	99.2% (871/878)	(98.4% - 99.7%)	94.1	99.5	0/0
FN	N	450	93.0% (53/57)	(83.0% - 98.1%)	100.0% (393/393)	(99.1% - 100.0%)	100.0	99.0	0/0
	Y	543	93.1% (54/58)	(83.3% - 98.1%)	99.0% (480/485)	(97.6% - 99.7%)	91.5	99.2	0/0
	Total	993	93.0% (107/115)	(86.8% - 96.9%)	99.4% (873/878)	(98.7% - 99.8%)	95.5	99.1	0/0
FUPT	N	450	94.7% (54/57)	(85.4% - 98.9%)	99.5% (391/393)	(98.2% - 99.9%)	96.4	99.2	0/0
	Y	543	91.4% (53/58)	(81.0% - 97.1%)	99.0% (480/485)	(97.6% - 99.7%)	91.4	99.0	0/0
	Total	993	93.0% (107/115)	(86.8% - 96.9%)	99.2% (871/878)	(98.4% - 99.7%)	93.9	99.1	0/0
MS	N	215	88.6% (31/35)	(73.3% - 96.8%)	98.9% (178/180)	(96.0% - 99.9%)	93.9	97.8	1/0
	Y	257	93.9% (62/66)	(85.2% - 98.3%)	97.9% (187/191)	(94.7% - 99.4%)	93.9	97.9	1/0
	Total	472	92.1% (93/101)	(85.0% - 96.5%)	98.4% (365/371)	(96.5% - 99.4%)	93.9	97.9	2/0
MN	N	215	100.0% (35/35)	(90.0% - 100.0%)	98.9% (178/180)	(96.0% - 99.9%)	94.6	100.0	0/0
	Y	257	97.0% (64/66)	(89.5% - 99.6%)	99.5% (190/191)	(97.1% - 100.0%)	98.5	99.0	0/0
	Total	472	98.0% (99/101)	(93.0% - 99.8%)	99.2% (368/371)	(97.7% - 99.8%)	97.1	99.5	0/0
MUPT	N	215	100.0% (35/35)	(90.0% - 100.0%)	98.9% (178/180)	(96.0% - 99.9%)	94.6	100.0	0/0
	Y	257	97.0% (64/66)	(89.5% - 99.6%)	97.4% (186/191)	(94.0% - 99.1%)	92.8	98.9	0/0
	Total	472	98.0% (99/101)	(93.0% - 99.8%)	98.1% (364/371)	(96.2% - 99.2%)	93.4	99.5	0/0
Total		5388	94.5% (721/763)	(92.6% - 96.0%)	98.9% (4575/4625)	(98.6% - 99.2%)	93.5	99.1	5/1

A	Asymptomatic	FUPT	Female urine in Q ^x UPT	MUPT	Male urine in Q ^x UPT
CI	Confidence Interval	FV	Female vaginal swab	n	number
FNU	Female Neat Urine	MNU	Male Neat Urine	S	Symptomatic
FS	Female endocervical swab	MS	Male urethral swab		

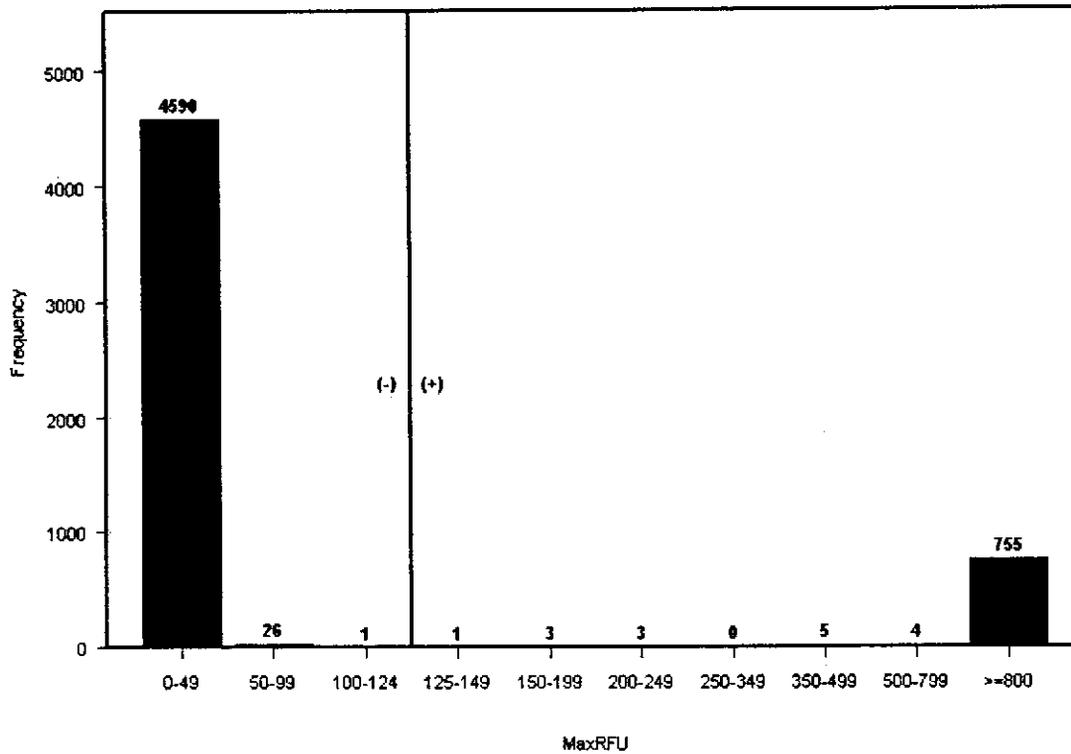


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A total of 5388 CT Q^x Assay results was evaluated at seven geographically diverse clinical sites. A frequency distribution of the initial MaxRFU values for the CT Q^x Assay with an assay cutoff of 125 MaxRFU is shown in **Figure A**.

Figure A: Frequency Distribution of MaxRFU for the CT Q^x Assay





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Reproducibility

Reproducibility of the **BD Viper** System using the **BD ProbeTec CT Q^x Assay** was evaluated at three clinical sites on one **BD Viper** System per site. A panel of simulated specimens was tested that comprised CT and GC organisms seeded into swab diluent for the **BD ProbeTec CT Q^x Assay**. Simulated endocervical and urethral specimens contained a clean endocervical swab whereas the simulated urine and vaginal swab specimens did not. Uninoculated swab diluent for the **BD ProbeTec CT Q^x Assay** was used for the CT negative samples. Nine replicates of each panel member were tested every day for five days on each **BD Viper** System. The data are summarized in **Table 4**.

Table 4: Summary of Reproducibility Data on the BD Viper System for the CT Q^x Assay

Specimen Type	CT EB/mL	GC Cells/mL	% Correct	95% CI	MaxRFUMean	Within Run		Between Runs Within Site		Between Site	
						SD	%CV	SD	%CV	SD	%CV
Endocervical/Urethral	0	0	98.5% (133/135)	(94.8-99.8%)	29.9	233.0	778.5	0.0	0.0	33.9	113.4
	30	0	100.0% (135/135)	(97.3-100.0%)	2011.2	114.1	5.7	0.0	0.0	14.8	0.7
	0	100	100.0% (135/135)	(97.3-100.0%)	1.4	6.0	442.7	1.0	76.9	0.0	0.0
	30	250	100.0% (135/135)	(97.3-100.0%)	1991.9	118.0	5.9	17.6	0.9	10.4	0.5
	75	100	100.0% (135/135)	(97.3-100.0%)	1954.8	169.4	8.7	0.0	0.0	0.0	0.0
Urine/Vaginal	0	0	100.0% (135/135)	(97.3-100.0%)	0.9	5.0	542.4	0.0	0.0	0.0	0.0
	30	0	100.0% (135/135)	(97.3-100.0%)	1999.8	131.8	6.6	34.2	1.7	0.0	0.0
	0	100	100.0% (135/135)	(97.3-100.0%)	0.8	3.4	442.4	0.0	0.0	0.0	0.0
	30	250	100.0% (135/135)	(97.3-100.0%)	1995.2	125.8	6.3	33.1	1.7	52.9	2.7
	75	100	100.0% (135/135)	(97.3-100.0%)	2014.4	109.5	5.4	0.0	0.0	0.0	0.0

A second study was conducted internally to characterize the reproducibility of test results (i.e., proportion positive or negative) at target levels below the analytical Limit of Detection (LOD) of the **BD ProbeTec CT Q^x Assay**. A panel of simulated specimens was tested that comprised CT and GC organisms seeded into Q^x swab diluent at two different levels each of which was below the respective analytical LOD for the organisms (1:10, 1:100). These levels were selected to fall within the dynamic range of the analytical LOD curve of the assay. Fifteen replicates of each panel member were tested every day for five days across three **BD Viper** Systems. The data are summarized in **Table 5**.



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Table 5: Characterization of System Reproducibility at Target Levels below the Analytical Limit of Detection for the CT Q^x Assay.

Endocervical/Urethral	1:10	70.2 (158/225)	(63.8, 76.1)	1794.2	29.8 (67/225)	(23.9, 36.2)	2.6
Endocervical/Urethral	1:100	10.2 (23/225)	(6.6, 14.9)	1643.8	89.8 (202/225)	(85.1, 93.4)	1.6
Urine/Vaginal	1:10	64.4 (145/225)	(57.8, 70.7)	1733.9	35.6 (80/225)	(29.3, 42.2)	4.6
Urine/Vaginal	1:100	10.7 (24/225)	(7.0, 15.5)	1666.6	89.3 (201/225)	(84.5, 93.0)	2.4

Conclusions

The analytical and clinical study results for the **BD ProbeTec *Chlamydia trachomatis* (CT) Q^x Amplified DNA Assay** support the determination of substantial equivalence in accordance with the intended use as stated in the product labeling.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
2098 Gaither Road
Rockville MD 20850

Becton, Dickinson and Company
Kathryn Babka Carr,
Sr. Regulatory Affairs Specialist / Regulatory Affairs
7 Loveton Circle
Sparks, MD 21152

DEC 11 2008

Re: k081824

Trade/Device Name: BD ProbeTecCT Q^x Amplified DNA Assay
Regulation Number: 21 CFR 866.3120
Regulation Name: Chlamydia Serological Reagents
Regulatory Class: Class I
Product Code: MKZ
Dated: December 5, 2008
Received: December 9, 2008

Dear Ms. Carr:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in Title 21, Code of Federal Regulations (CFR), Parts 800 to 895. In addition, FDA may publish further announcements concerning your device in the Federal Register.

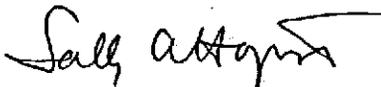
Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Parts 801 and 809); and good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820). This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed

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This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of In Vitro Diagnostic Device Evaluation and Safety at 240-276-0450. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometric's (OSB's) Division of Postmarket Surveillance at 240-276-3474. For questions regarding the reporting of device adverse events (Medical Device Reporting (MDR)), please contact the Division of Surveillance Systems at 240-276-3464. You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (240) 276-3150 or at its Internet address <http://www.fda.gov/cdrh/industry/support/index.html>.

Sincerely yours,



Sally A. Hojvat, M.Sc., Ph.D.
Director
Division of Microbiology Devices
Office of *In Vitro* Diagnostic Device
Evaluation and Safety
Center for Devices and
Radiological Health

Enclosure

Indications for Use

510(k) Number: K081824

Device Name: BD ProbeTec™ *Chlamydia trachomatis* (CT) Q^x Amplified DNA Assay

Indications For Use:

The BD ProbeTec *Chlamydia trachomatis* (CT) Q^x Amplified DNA Assay, when tested with the **BD Viper™** System in Extracted Mode, uses Strand Displacement Amplification (SDA) technology for the direct, qualitative detection of *Chlamydia trachomatis* DNA in clinician-collected female endocervical and male urethral swabs, patient-collected vaginal swab specimens (in a clinical setting), and female and male urine specimens. The assay is indicated for use with asymptomatic and symptomatic individuals to aid in the diagnosis of chlamydial urogenital disease.

Prescription Use √
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use _____
(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of In Vitro Diagnostic Devices (OIVD)

Whe Self

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**Office of In Vitro Diagnostic Device
Evaluation and Safety**

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