



September 2024

In July we communicated our plan to launch the BD BACTEC™ Lytic Anaerobic media in glass with targeted availability beginning the first week of September. This product was previously discontinued in 2022 and is now being reintroduced as a short-term action that will improve overall product quantities. This memo is intended to inform of equivalency results between glass and plastic for the below media types.

SKU	Description	Shelf Pack Size
442021	BD BACTEC™ Lytic/10 Anaerobic/F Culture Vials in plastic	50 EA
442265 (Glass)	BD BACTEC™ Lytic/10 Anaerobic/F Culture Vials in glass	50 EA
445771	BD BACTEC™ Bottle Holder	100 EA

Although the glass vial product is a different SKU (#442265), there are no changes in the intended use or media formulation of the product when compared to plastic. The glass vial is slightly taller but otherwise has the same dimensions to fit into BD BACTEC™ instruments. BD BACTEC™ instruments can run both plastic and glass vials simultaneously with no software configurations necessary. Users will have to consider the implications of glass vials when using pneumatic tube systems, however BD offers a bottle holder (SKU #445771) to help protect glass vials during transport.

A guideline to assist clinical laboratories in conducting the verification of performance for BD BACTEC™ Blood Culture media is provided on BDBACTEC-update.com. The requirement and choice of a verification strategy for the BD BACTEC™ Blood Culture media is ultimately the decision of the laboratory, often in consideration of current testing methods employed in supporting clinics and laboratories, the laboratory's standard operating procedures, and the patient populations under consideration.

Please find a summary of the Time to Detection (TTD) and Recovery data on the subsequent pages. Should you have any questions or concerns, please contact BD Technical Services at technical.services@bd.com.

Sincerely,

A handwritten signature in black ink that reads "Chris Beddard".

Chris Beddard
VP, Microbiology
BD Life Sciences – Diagnostic Solutions

Time to Detection Summary:

Organism Group	Target CFU	Blood mL	Glass Median TTD (95% CI) [N]	Plastic Median TTD (95% CI) [N]
Strict Anaerobe ⁽¹⁾	0-1	3	not enough data to calculate [2]	not enough data to calculate [2]
		10	not enough data to calculate [3]	not enough data to calculate [3]
	1-10	3	27.3 (27.3, 33.4) [18]	26.1 (22.6, 32.1) [18]
		10	29.1 (23.0, 33.4) [16]	30.7 (22.8, 35.1) [16]
	10-100	3	22.8 (20.4, 26.0) [30]	22.1 (19.3, 25.9) [30]
		10	22.2 (19.6, 25.9) [30]	22.4 (19.2, 26.1) [30]
Facultative Anaerobe ⁽²⁾	0-1	3	15.7 (12.4, 19.1) [6]	15.6 (12.2, 19.1) [6]
		10	15.7 (10.6, 20.3) [9]	15.2 (10.6, 19.7) [9]
	1-10	3	14.0 (11.7, 16.6) [21]	13.5 (11.8, 16.6) [21]
		10	13.2 (11.6, 15.4) [20]	12.6 (11.5, 14.5) [20]
	10-100	3	11.9 (10.3, 12.9) [27]	11.6 (10.2, 12.8) [27]
		10	11.3 (10.3, 12.7) [27]	11.0 (10.3, 12.6) [27]
Strict Anaerobe and Facultative Anaerobes Combined	0-1	3	19.0 (12.8, 32.1) [8]	18.9 (12.6, 21.1) [8]
		10	17.9 (13.6, 22.5) [12]	17.8 (14.3, 23.1) [12]
	1-10	3	19.4 (16.4, 24.3) [39]	19.1 (16.2, 23.8) [39]
		10	19.3 (15.9, 23.9) [36]	19.0 (15.7, 25.1) [36]
	10-100	3	17.5 (15.1, 20.0) [57]	17.1 (14.8, 19.2) [57]
		10	16.9 (14.8, 19.2) [57]	16.8 (14.6, 19.0) [57]

⁽¹⁾ Organisms tested: *Bacteroides fragilis*, *Bacteroides ovatus*, *Bacteroides thetaiotaomicron*, *Bacteroides vulgatus*, *Clostridium novyi*, *Clostridium perfringens*, *Fusobacterium nucleatum*, *Hathewayia histolytica*, *Porphyromonas asaccharolytica*, *Veillonella parvula*

⁽²⁾ Organisms tested: *Enterococcus faecalis*, *Enterococcus faecium*, *Escherichia coli*, *Klebsiella pneumoniae*, *Staphylococcus aureus*, *Staphylococcus epidermidis*, *Streptococcus agalactiae*, *Streptococcus pneumoniae*, *Streptococcus pyogenes*

Percent Recovery Summary:

Organism Group	Target CFU	Blood mL	Glass Bottle Percent Recovery (#positive bottles/#total bottles)	Plastic Bottle Percent Recovery (#positive bottles/#total bottles)
Strict Anaerobe ⁽¹⁾	0-1	3	33.3% (6/18)	50.0% (9/18)
		10	27.8% (5/18)	44.4% (8/18)
	1-10	3	100.0% (18/18)	100% (18/18)
		10	94.4% (17/18)	94.4% (17/18)
	10-100	3	100.0% (30/30)	100.0% (30/30)
		10	100.0% (30/30)	100.0% (30/30)
Facultative Anaerobe ⁽²⁾	0-1	3	33.3% (7/21)	66.7% (14/21)
		10	57.1% (12/21)	61.9% (13/21)
	1-10	3	100% (21/21)	100.0% (21/21)
		10	95.2% (20/21)	100.0% (21/21)
	10-100	3	100.0% (27/27)	100.0% (27/27)
		10	100.0% (27/27)	100.0% (27/27)
Strict Anaerobe and Facultative Anaerobes Combined	0-1	3	33.3% (13/39)	59.0% (23/39)
		10	43.6% (17/39)	53.8% (21/39)
	1-10	3	100.0% (39/39)	100.0% (39/39)
		10	94.9% (37/39)	97.4% (38/39)
	10-100	3	100% (57/57)	100% (57/57)
		10	100% (57/57)	100% (57/57)

⁽¹⁾ Organisms tested: *Bacteroides fragilis*, *Bacteroides ovatus*, *Bacteroides thetaiotaomicron*, *Bacteroides vulgatus*, *Clostridium novyi*, *Clostridium perfringens*, *Fusobacterium nucleatum*, *Hathewayia histolytica*, *Porphyromonas asaccharolytica*, *Veillonella parvula*

⁽²⁾ Organisms tested: *Enterococcus faecalis*, *Enterococcus faecium*, *Escherichia coli*, *Klebsiella pneumoniae*, *Staphylococcus aureus*, *Staphylococcus epidermidis*, *Streptococcus agalactiae*, *Streptococcus pneumoniae*, *Streptococcus pyogenes*