

BluePippin™ Cassette Kit Reference Chart

Software v.6.00 Cassette Definition Set 10



For Band Capture: use **0.30** for optical calibration setting

Product Number Midori Green*	Size Range [#]	Collection Times	Minimum size Distribution as Expressed by (CV)	Electrophoresis Voltage	Gel Cassette Type	Marker Type	Marker
BLG7510	5 – 10kb	2 – 5 hrs	N/A	Pulsed field	0.75% agarose	External	D1
BLG7510	2 – 5kb	1 – 2.5 hrs	N/A	Pulsed field	0.75% agarose	External	D1
BSG1510	250 – 1500 bp	50 – 140 min	N/A	100 V, constant	1.5% agarose	External	A1

* Midori Green is a DNA binding dye, allowing optical detection of DNA. [#]Size range specifications are based on "Tight" mode collections, see table next page.

For Size Selection: use **0.60** for optical calibration setting

Product Number Dye-Free**	Size Range [#]	Collection Times	Minimum size Distribution as Expressed by (CV)	Electrophoresis Voltage	Gel Cassette Type	Marker Type	Marker
BHF7510	40, or 50 kb	7 or 8hr	20%	Pulsed field	0.75% agarose	External	W1
BMF7510	18 – 27 kb	3.8 – 4.3 hr	20%	Pulsed field	0.75% agarose	External	T1
BUF7510	10 – 18 kb	2.9 – 3.7 hr	20%	Pulsed field	0.75% agarose	External	U1
BLF7510	>4 – 10 kb†	2.0 hr	NA	100 V, constant	0.75% agarose	External	S1
BLF7510	3 – 10 kb	2.3 – 3.1 hr	20%	Pulsed field	0.75% agarose	External	S1
BLF7510	2 – 6 kb	1.4 – 2.4 hr	20%	Pulsed field	0.75% agarose	External	S1
BLF7510	1 – 6 kb	3 – 8 hr	10%	25 V, constant	0.75% agarose	External	S1
BDF1510	250 – 1500 bp	28 – 75 min	8%	150 V, constant	1.5% agarose	Internal	R2
BDF2010	100 – 600 bp	50 – 100 min	8%	100 V, constant	2% agarose	Internal	V1
BSF2010‡	100 – 600 bp	50 – 100 min	8%	100 V, constant	2% agarose	Internal	X1
BEF2010	100 – 600 bp	50 – 100 min	8%	100 V, constant	2% agarose	External	M1
BDF3010	90 – 250 bp	50 – 100 min	8%	100 V, constant	3% agarose	Internal	Q2

** Sample DNA is not detected. Fluorescently labeled DNA markers are used to determine collection timing.

[#]Size range specifications are based on "Tight" mode collections, see next page.

† "High-Pass" protocol. Collects remaining DNA fragments above target size value.

‡ 25µl elution module volume, other cassettes have 40µl volumes.

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Cassette Kit Product Number	Cassette Type Software Definitions	DNA Control Kit Product Number
BLG7510	0.75% Band Capture 2 – 5 kb Marker D1	CBC7501
BLG7510	0.75% Band Capture 5 – 10 kb Marker D1	CBC7601
BLG1510	1.5% Band Capture 250 – 1500 bp Marker A1	CBC1501
BMF7510	0.75% DF 18 – 27 kb Marker T1	CON7604
BUF7510	0.75% DF 10 – 18 kb Marker U1	CON7604
BLF7510	0.75% DF 2 – 6 kb Marker S1	CON7504
BLF7510	0.75% DF 3– 10 kb Marker S1	CON7504
BLF7510	0.75% DF Low Voltage 2 – 6 kb Marker S1	CON7504
BDF1510	1.5% DF Marker R2	CIS1504
BDF2010	2% DF Marker V1	CIS2004
BEF2010	2% EF Marker M1	CON2004
BDF3010	3% DF Marker Q2	CIS3004

	DNA Target Size Ranges	
	Tight Mode	Range Mode
0.75% agarose	40 or 50 kb*	NA
0.75% agarose	18 – 27 kb	13 – 33 kb
0.75% agarose	10 – 18 kb	9 – 20 kb
0.75% agarose	5 – 10 kb	3 – 12 kb
0.75% agarose	2 – 6 kb	1 – 7 kb
1.5% agarose	250 – 1500 bp	200 – 1700 bp
3% agarose	90 – 250 bp	80 – 270 bp

* Size selection may be made at these target values only. However the selection width may be widened to increase sample yield.



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