

## Lateral Flow Nitrocellulose Membrane

Nitrocellulose is the globally preferred membrane substrate in diagnostic lateral flow assays where antigen-antibody binding occurs, e.g., pregnancy tests, HIV tests and C-reactive protein (CRP) detection. When choosing a nitrocellulose membrane for lateral flow point-of-care tests (POCT), quality assurance and membrane consistency are critical to give you confidence in your test performance from development through manufacturing to implementation.

Our nitrocellulose membranes are specifically designed to be the ideal solid phase for all diagnostic lateral flow immunoassays.

- Clear & defect-free membrane surface
- Predictable result time
- Accuracy & reproducibility of lateral flow test results
- Quality assured manufacturing
- Defined lot-to-lot consistency

## Membrane Specifications

BSK	CN 95 backed	CN 110 backed	CN 140 unbacked	CN 140 backed	CN 160 backed
Membrane Material	nitrocellulose	nitrocellulose	nitrocellulose	nitrocellulose	nitrocellulose
Backing	100 µm polyester, clear	100 µm polyester, clear	none	100 µm polyester, clear	100 µm polyester, clear
Thickness (µm)	115 - 155	115 - 155	115 - 155	115 - 155	115 - 155
Capillary speed down web, purified water (s/40mm)	80 - 120	90 - 150	110 - 170	110 - 170	130 - 190
Pore size (µm)	12-15	8-12	5-8	5-8	4-6
Visual appearance	All BSK membranes offer a white, flat and smooth surface, free of macroscopic defects and foreign matter. They are all 100% inspected by backlight inspection.				
Wettability	Precise amount of anionic surfactant allows for fast wetting.				

## Roll Specification Applications

BSK	CN 95 backed	CN 110 backed	CN 140 unbacked	CN 140 backed	CN 160 backed
Backing	100 µm clear	100 µm clear	none	100 µm clear	100 µm clear
Belt side as application side	no	no	yes	no	no
Background clearing	very fast	very fast	fast	fast	fast
Time-to-signal	fast	fast	medium	medium	medium
Quick response tests	best suitable	depending on migration distance	depending on migration distance	depending on migration distance	depending on migration distance
Sensitivity	good	good	very good	very good	very good
Viscous samples	very good	good	good	good	good
Particle loaded samples	very good	very good	good	good	good
Backing as barrier against card glue	yes	yes	no, cards need to be selected carefully	yes	yes
Contact dispensing equipment	suitable	suitable	suitable	suitable	suitable
Non-contact dispensing equipment	suitable	suitable	suitable	suitable	suitable
Suitable for reel-to-reel manufacturing	suitable	suitable	needs careful handling	suitable	suitable

## Ordering Information

### CN 95 Backed Lateral Flow Nitrocellulose Membrane

BSK Membrane	Backing Polyester	Width (mm)	Length (m)	Max. Splices	Units/ Box	Catalog Number
CN 95	100 µm clear	20	50	0	5 rolls	1CN95ER2050
CN 95	100 µm clear	25	50	0	5 rolls	1CN95ER2550
CN 95	100 µm clear	30	50	3	5 rolls	1CN95ER30503
CN 95	100 µm clear	20	100	3	1 roll	1CN95ER201003
CN 95	100 µm clear	25	100	1	5 rolls	1CN95ER251001
CN 95	100 µm clear	25	100	3	5 rolls	1CN95ER251003
CN 95	100 µm clear	28	100	3	5 rolls	1CN95ER281003
CN 95	100 µm clear	30	100	3	5 rolls	1CN95ER301003
CN 95	100 µm clear	35	100	3	5 rolls	1CN95ER351003
CN 95	100 µm clear	40	100	0	1 roll	1CN95ER40100
CN 95	100 µm clear	70	100	0	1 roll	1CN95ER70100

### CN 110 Backed Lateral Flow Nitrocellulose Membrane

BSK Membrane	Backing Polyester	Width (mm)	Length (m)	Max. Splices	Units/ Box	Catalog Number
CN 110	100 µm clear	20	50	3	5 rolls	1CN11ER20100
CN 110	100 µm clear	25	100	3	5 rolls	1CN11ER25100
CN 110	100 µm clear	25	100	3	1 roll	1CN11ER251001

### CN 140 unbacked Lateral Flow Nitrocellulose Membrane

BSK Membrane	Backing Polyester	Width (mm)	Length (m)	Max. Splices	Units/ Box	Catalog Number
CN 140	none	20	50	3	5 rolls	1CN14AR2050
CN 140	none	25	50	3	5 rolls	1CN14AR2550
CN 140	none	20	100	3	5 rolls	1CN14AR201003
CN 140	none	20	100	0	5 rolls	1CN14AR20100
CN 140	none	25	100	3	5 rolls	1CN14AR251003
CN 140	none	25	100	0	5 rolls	1CN14AR25100
CN 140	none	35	100	3	5 rolls	1CN14AR351003
CN 140	none	40	100	3	1 roll	1CN14AR401003
CN 140	none	270	100	3	1 roll	1CN14AR2701003

### CN 140 backed Lateral Flow Nitrocellulose Membrane

BSK Membrane	Backing Polyester	Width (mm)	Length (m)	Max. Splices	Units/ Box	Catalog Number
CN 140	100 µm clear	20	50	3	5 rolls	1CN14ER2050
CN 140	100 µm clear	25	50	3	5 rolls	1CN14ER25503
CN 140	100 µm clear	25	50	0	5 rolls	1CN14ER2550
CN 140	100 µm clear	17	100	3	1 roll	1CN14ER171003
CN 140	100 µm clear	18	100	3	5 rolls	1CN14ER181003
CN 140	100 µm clear	20	100	3	1 roll	1CN14ER201003
CN 140	100 µm clear	20	100	3	5 rolls	1CN14ER2010035
CN 140	100 µm clear	25	100	3	1 roll	1CN14ER251003
CN 140	100 µm clear	25	100	3	5 rolls	1CN14ER2510035
CN 140	100 µm clear	28	100	3	5 rolls	1CN14ER281003
CN 140	100 µm clear	30	100	3	5 rolls	1CN14ER301003
CN 140	100 µm clear	35	100	3	5 rolls	1CN14ER351003
CN 140	100 µm clear	40	100	0	1 roll	1CN14ER40100
CN 140	100 µm clear	70	100	0	1 roll	1CN14ER70100

### CN 160 Backed Lateral Flow Nitrocellulose Membrane

BSK Membrane	Backing Polyester	Width (mm)	Length (m)	Max. Splices	Units/ Box	Catalog Number
CN 160	100 µm clear	20	50	3	5 rolls	1CN16ER2050
CN 160	100 µm clear	25	50	3	5 rolls	1CN16ER2550
CN 160	100 µm clear	20	100	3	5 rolls	1CN16ER20100
CN 160	100 µm clear	25	100	3	1 roll	1CN16ER25100
CN 160	100 µm clear	25	100	3	5 rolls	1CN16ER251005



Biopathchina Inc., 8219 BioLegend Way, SanDiego, CA 92121 [www.biopathchina.com](http://www.biopathchina.com)

Toll-Free Phone: 1-833-Biopathchina (243-5333) Phone: (858) 763-5400 Fax: (877) 453-9537

Biopathchina Inc., 833 Times E-PARK, Guangzhou, China CN 511495

Toll-Free Phone: 86-20-Biopathchina (3884-9565) Fax: (86-20) 3884-9663