

Whatman®

Protran®

Nitrocellulose Membranes
a universal blotting surface

Optitran®

Reinforced Nitrocellulose
combines strength & sensitivity



Westran®

PVDF Membranes
for protein blotting

Nytran®

Nylon Membranes
for nucleic acid applications

Blotting Membranes

Helpful Knowledge

- Protran®**
 - best and easiest blocking of unspecific binding compared to all blotting membranes
 - superior for chemiluminescence detection using horseradish peroxidase based systems
- Optitran®**
 - combines excellent properties of nitrocellulose with reinforcing fleece
- Nytran® N**
 - easier to block than highly positively charged Nylon & available in two pore sizes
- Nytran® SPC**
 - highest binding capacity available
- Westran® S**
 - specifically designed for protein sequencing applications
- Westran® CS**
 - specifically designed for Western blotting applications

Blotting Membrane Selection Guide

● recommended ● satisfactory	Protran®	Optitran®	Nytran® N	Nytran® SuPerCharge	Westran® S	Westran® Clear Signal
MEMBRANE TYPE:	Nitrocellulose, 100% pure	Nitrocellulose, reinforced	Nylon, moderately positively charged	Nylon, highly positively charged	PVDF	PVDF
APPLICATIONS:	Western, Southern, Northern blotting...	Western, Southern,	Southern, Northern blotting... Northern blotting...	Southern, Northern blotting...	Western blotting... Sequencing	Western blotting...
BINDING CAPACITY:	80-150 µg/cm ²	75-90 µg/cm ²	> 400 µg/cm ²	> 600 µg/cm ²	> 200 µg/cm ²	> 125 µg/cm ²
PORE SIZES:	0.45 µm 0.2 µm 0.1 µm	0.45 µm 0.2 µm -	0.45 µm 0.2 µm -	0.45 µm - -	- 0.2 µm -	0.45 µm - -
TRANSFER METHODS:						
Semi-dry blotting	●	●	●	●	●	●
Tank blotting	●	●	●	●	●	●
Vacuum blotting	●	●	●	●	●	●
Capillary blotting	●	●	●	●	●	●
Alkaline method	not recommended	not recommended	●	●	not recommended	not recommended
IMMOBILIZATION:						
UV-crosslinking, DNA, RNA	●	●	●	●	-	-
Baking (80°C), DNA, RNA	●	●	●	●	-	-
Drying, DNA, RNA	-	-	●	●	-	-
Drying, Protein	●	●	-	-	●	●
DETECTION METHODS:						
Colorimetric	●	●	●	●	●	●
Chemiluminescent	●	●	●	●	●	●
Isotopic	●	●	●	●	●	●
Fluorescent	●	-	-	-	-	-
REPROBING:	limited	●	●	●	●	●

FURTHER INFORMATION