



From Indigenous Idea to Newtech Solution

# EvroCross™

With Biodegradable Polymer



## Everolimus Eluting Coronary Stent System

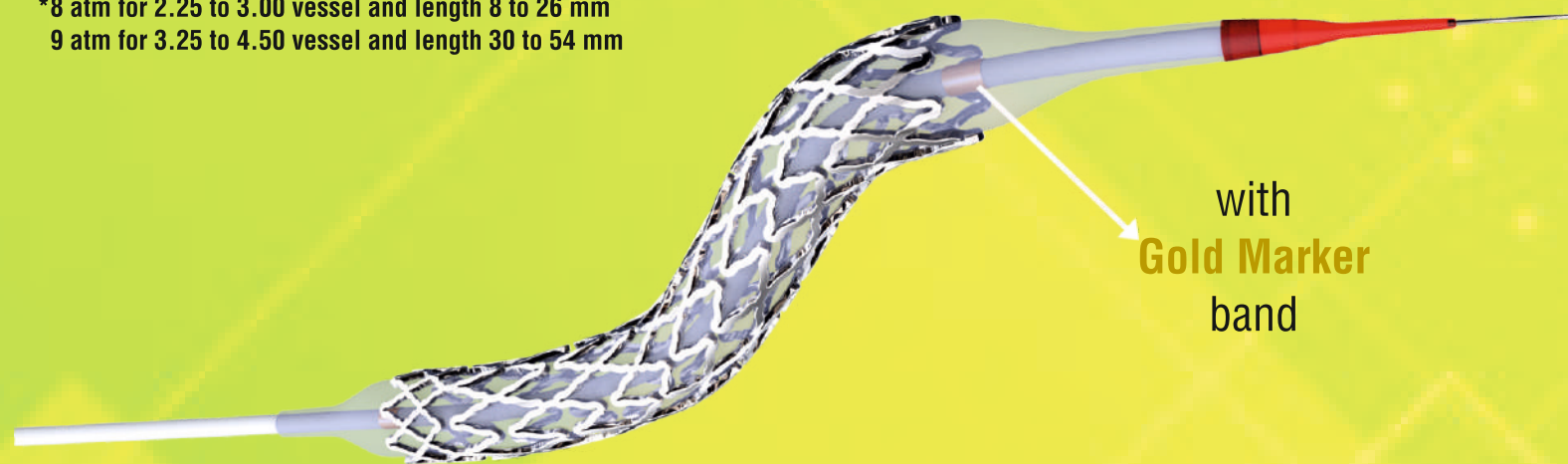
[www.ntmdevices.com](http://www.ntmdevices.com)

# EvroCross™

## Everolimus Eluting Coronary Stent System EvroCross Everolimus Eluting Coronary Stent System

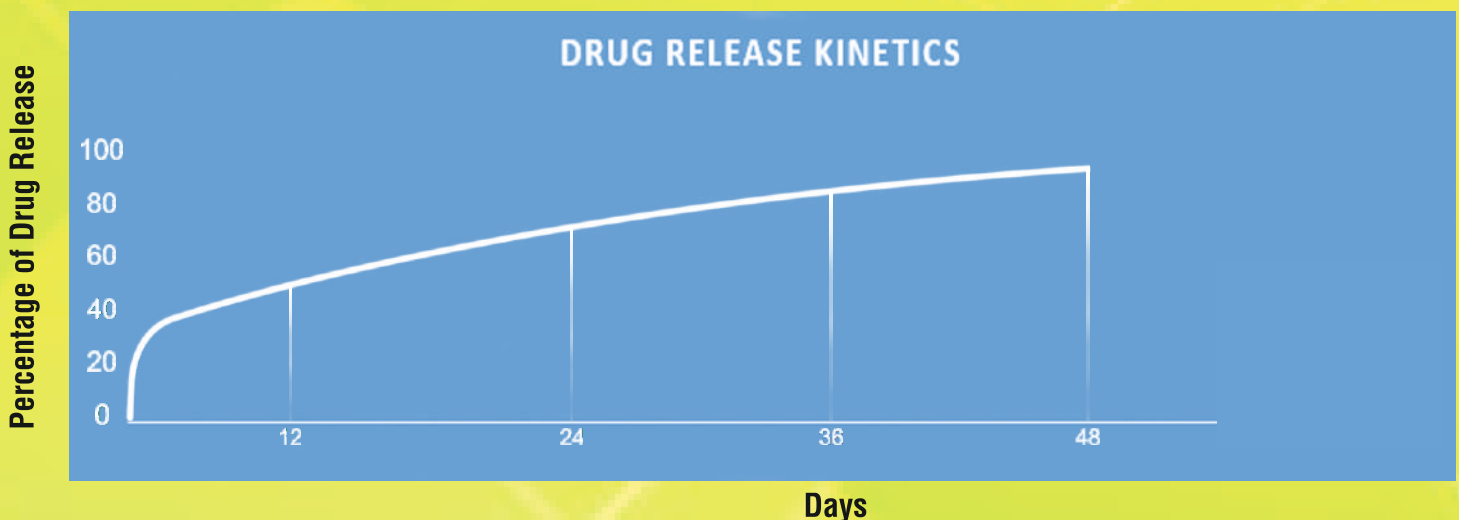
Stent Material	Implantable Cobalt Chromium (L605), laser cut seamless tubing in a serpentine pattern coated with a polymer and Everolimus mixture.
Delivery System usable length	140 cm
Delivery System Y Adaptor Ports	Single access port to the inflation/deflation lumen. A guide wire exit port is located at 25 cm from the tip. Designed for guidewire 0.014" (0.36 mm)
Stent Delivery Balloon	Nylon balloon, nominally 1.0 mm longer than stent, mounted stent length and location in defined by radiopaque Gold 18K marker at proximal and distal to stent.
Balloon Inflation pressure	Nominal inflation Pressure : 8 atm* Rated burst pressure : 16 atm
Guiding Catheter inner diameter	5 Fr. (1.40mm) Compatible
Guide Wire	0.014 inches
Strut Thickness (µm)	80 ± 5
Polymer Bio-Degradation	100 % 7-8 weeks
Pushability and Trackability	Excellent
Stent Recoil	< 6 %
Foreshortening	< 2 %
Stent architecture	Hybrid cell design with Non-Linear links

\*8 atm for 2.25 to 3.00 vessel and length 8 to 26 mm  
9 atm for 3.25 to 4.50 vessel and length 30 to 54 mm



### Proven Drug Release Kinetics

EvroCross has proven drug release kinetics Initial Burst Release of 30% to 40% Evrolimus in the first week followed by sustained release upto 48-50 days to maintain therapeutic Evrolimus drug concentration to optimize the anti tissue proliferative action.



# EvroCross™

## Everolimus Eluting Coronary Stent System

The **EvroCross** Everolimus eluting stent system is a combination product comprised of two regulated components : a device (a coronary stent system) and a drug product (a formulation of Everolimus contained in a polymer coating) pre mounted a balloon catheter between two GOLD radio opaque marker bands.

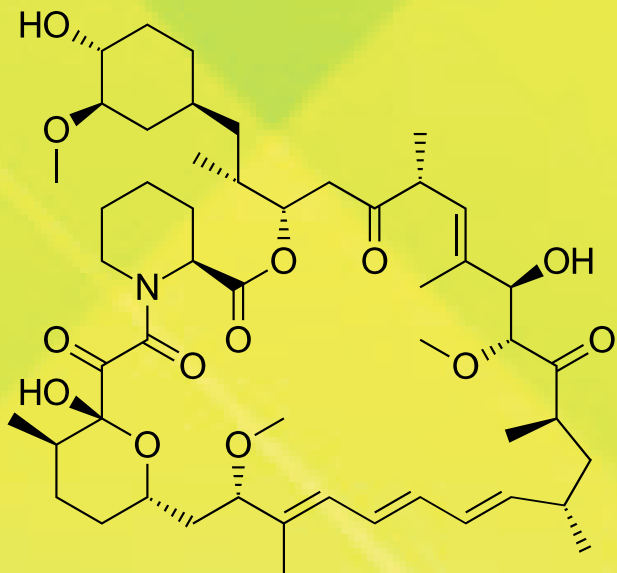
### Stent Diameter (measured at 37.5 ° C tolerance + 0.10 mm)

Pressure Bar	2.00mm	2.25mm	2.50mm	2.75mm	3.00mm	3.50mm	4.00mm	4.50 mm
6	2.00	2.05	2.30	2.50	2.70	3.30	3.70	4.20
7	2.10	2.10	2.35	2.55	2.80	3.36	3.76	4.25
8	2.15	2.15	2.40	2.60	2.85	3.40	3.85	4.32
9*	2.23	2.20	2.45	2.70	2.96	3.44	3.94	4.42
10	2.25	2.29	2.54	2.80	3.08	3.57	4.10	4.57
11	2.28	2.30	2.59	2.86	3.10	3.62	4.12	4.59
12	2.30	2.32	2.62	2.89	3.14	3.66	4.16	4.62
13	2.32	2.35	2.65	2.92	3.18	3.70	4.20	4.65
14	2.35	2.39	2.67	2.95	3.20	3.74	4.24	4.68
15	2.39	2.41	2.70	2.98	3.22	3.78	4.27	4.72
16**	2.41	2.43	2.72	3.01	3.26	3.80	4.30	4.75
17	2.43	2.45	2.75	3.04	3.30	3.82	4.32	4.78
18	2.45	2.47	2.79	3.08	3.35	3.86	4.36	4.81
20	2.47	2.48	2.81	3.12	3.40	3.89	4.40	4.85

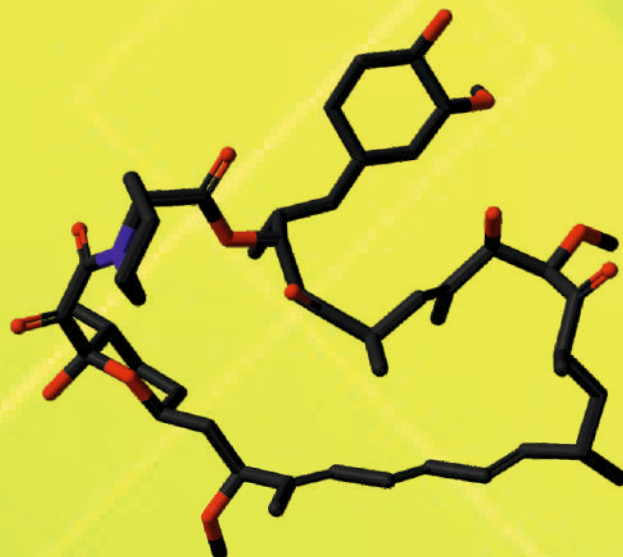
\*Nominal Pressure ; \*\* Rated Burst Pressure. # For stent size above 34 mm , kindly refer compliance chart on the outer label.

### Drug Component Description

EvroCrossEverolimus stent is coating consists of a blend of Everolimus drug (the active ingredient) and biodegradable polymers (the inactive ingredient). Everolimus is a Macrocyclic lactone produced by *Streptomyces hygroscopicus*. The chemical name of Everolimus (also known as rapamycin) is (3S,6R,7E,9R,10R,12R,14S,15E,17E,19E,21S,23S,26R,27R,34aS)-9,10,12,13,14,21,22,23,24,25,26,27,32,33,34ahexadecahydro-9,27-dihydroxy-3-[(1R)-2-[(1S,3R,4R)-4-hydroxy-3-methoxycyclohexyl]-1-methylethyl]-10,21-dimethoxy-6,8,12,14,20,26-hexamethyl-23,27-epoxy-3H-pyrido[2,1-c][1,4]oxaazacyclohentacontine-1,5,11,28,29(4H,6H,31H)-pentone. Its molecular formula is C<sub>51</sub>H<sub>79</sub>N<sub>1</sub>O<sub>13</sub> and its molecular weight is 914.2.



Structural formula of Everolimus



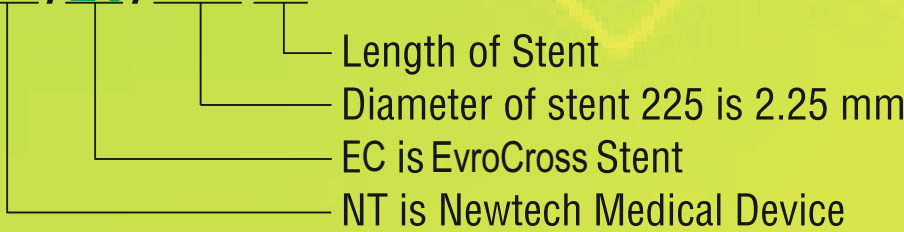
3D Stick model

# EvroCross™

## Everolimus Eluting Coronary Stent System

### Ordering Information

**NT/EC/22508**



Stent Diameter	2.00 mm	2.25 mm	2.50 mm	2.75 mm	3.00 mm	3.50 mm	4.00 mm	4.50 mm
Length								
08 mm	NT/EC/20008	NT/EC/22508	NT/EC/25008	NT/EC/27508	NT/EC/30008	NT/EC/35008	NT/EC/40008	
12 mm	NT/EC/20012	NT/EC/22512	NT/EC/25012	NT/EC/27512	NT/EC/30012	NT/EC/35012	NT/EC/40012	
14 mm	NT/EC/20014	NT/EC/22514	NT/EC/25014	NT/EC/27514	NT/EC/30014	NT/EC/35014	NT/EC/40014	NT/EC/45014
18 mm	NT/EC/20018	NT/EC/22518	NT/EC/25018	NT/EC/27518	NT/EC/30018	NT/EC/35018	NT/EC/40018	NT/EC/45018
22 mm	NT/EC/20022	NT/EC/22522	NT/EC/25022	NT/EC/27522	NT/EC/30022	NT/EC/35022	NT/EC/40022	NT/EC/45022
26 mm	NT/EC/20026	NT/EC/22526	NT/EC/25026	NT/EC/27526	NT/EC/30026	NT/EC/35026	NT/EC/40026	NT/EC/45026
30 mm	NT/EC/20030	NT/EC/22530	NT/EC/25030	NT/EC/27530	NT/EC/30030	NT/EC/35030	NT/EC/40030	NT/EC/45030
34 mm				NT/EC/27534	NT/EC/30034	NT/EC/35034	NT/EC/40034	NT/EC/45034
38 mm				NT/EC/27538	NT/EC/30038	NT/EC/35038	NT/EC/40038	NT/EC/45038
42 mm					NT/EC/30042	NT/EC/35042	NT/EC/40042	NT/EC/45042
46 mm					NT/EC/30046	NT/EC/35046	NT/EC/40046	NT/EC/45046
48 mm					NT/EC/30048	NT/EC/35048	NT/EC/40048	NT/EC/45048
50 mm					NT/EC/30050	NT/EC/35050	NT/EC/40050	NT/EC/45050
54 mm					NT/EC/30054	NT/EC/35054	NT/EC/40054	NT/EC/45054

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