

E-MAGIC[®] PLUS

SIROLIMUS-ELUTING COBALT CHROMIUM
CORONARY STENT SYSTEM



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COATING

The E-Magic Plus is a drug eluting stent delivery system as the stent is coated with the active pharmaceutical ingredient sirolimus ($1.3\mu\text{g}/\text{mm}^2$) within a biodegradable PLLA & PLGA matrix.

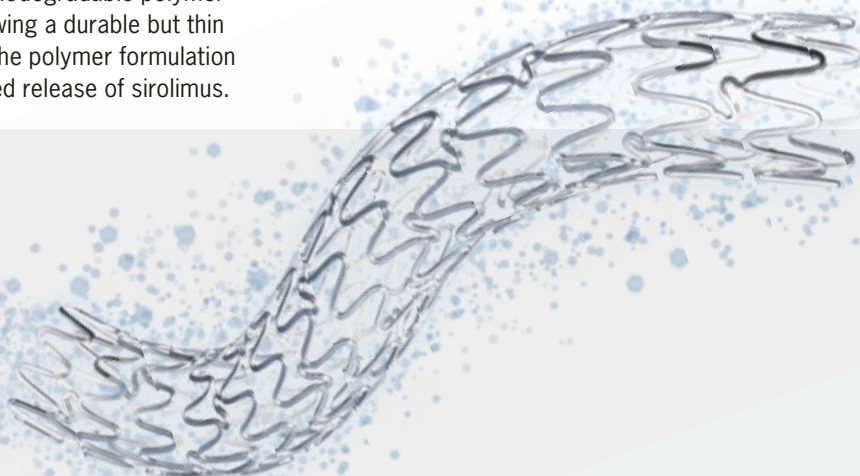
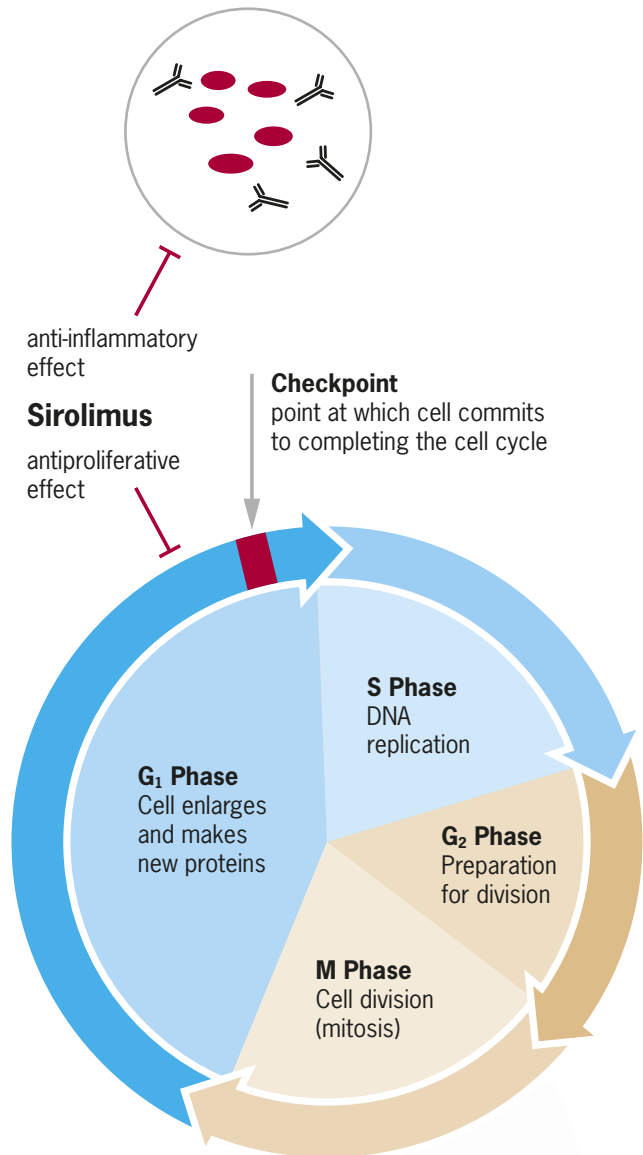
The new alliance of a fully biodegradable polymer, together with sirolimus efficiency to prevent restenosis, assures homogeneous drug distribution and uniform release kinetics. Such combination is expected to demonstrate long term efficacy as well as extremely low rates of late stent thrombosis.

Sirolimus

- Sirolimus is a drug with an antiproliferative and anti-inflammatory effect that is used to coat coronary stents.
- Sirolimus is the generic name of the natural product rapamycin, produced by strains of the bacterium *Streptomyces hygroscopicus*.
- Sirolimus inactivates the TOR protein and thus blocks transition from the G₁ phase to the S phase in the cell cycle and therewith triggers an antimigratory and antiproliferative effect on vascular smooth muscle cells.
- Sirolimus also inhibits the pro-inflammatory immune cell activation.

Biodegradable Polymer

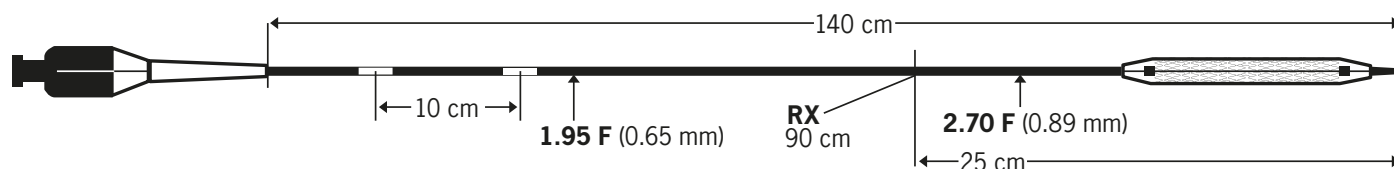
The coating consists of a biocompatible and biodegradable co-polymer formulation of poly L-lactide (PLLA) and poly DL-lactide-co-glycolide (PLGA). The biodegradable polymer has outstanding characteristics allowing a durable but thin coating layer on the stent surface. The polymer formulation enables a homogenous and controlled release of sirolimus.



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TECHNICAL DATA



STENT

Stent Material	Cobalt Chromium L605
Stent Strut thickness (µm)	60
Stent Diameters (mm)	2.25, 2.50, 2.75, 3.00, 3.50, 4.00
Stent Lengths (mm)	8, 12, 16, 20, 24, 28, 32, 36, 40
Stent Design	Laser cut, hybrid open & closed cell design
Stent Coating	Sirolimus (1.3µg/mm ²) within a biodegradable PLLA & PLGA matrix
Recoil	< 5%
Nominal Stent Foreshortening	< 5%

DELIVERY SYSTEM

Delivery System	Rapid Exchange
Balloon Material	Polyamid
Balloon Characteristics	Semi-compliant
Nominal Pressure	8 atm
Rated Burst Pressure	16 atm except balloon diameter 3.5 mm/ length ≥ 36 mm (14 atm) and balloon diameter 4.0 mm/ length ≥ 32 mm (14 atm)
Shaft outer Diameter	Proximal 1.95 F / Distal 2.70 F
Radiopaque Markers	Platinum/Iridium
Guide Catheter Compatibility	5 F
Max. Guide Wire	0.014" (0.36 mm)
Crossing Profile	0.039" (3.0 mm diameter)
Usable Catheter Length	140 cm

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BENEFITS

- ✓ Semi-compliant balloon with an average deflation time of 6 seconds
- ✓ Short, thin and soft tip
- ✓ Open cell stent design enables optimal access to side branch
- ✓ Stent strut thickness of only 60 µm for maximal stent flexibility and minimized trauma to the vessel wall
- ✓ Reduced recoil of dilated stents
- ✓ Biodegradable PLLA & PLGA polymer
- ✓ Sirolimus coating with active pharmaceutical and anti-restenotic properties
- ✓ Drug release within 30–40 days after implantation

PRODUCT ORDERING INFORMATION

Stent Length (mm)	E-MAGIC® PLUS Sirolimus-eluting cobalt chromium coronary stent system					
	Balloon Diameter (mm)					
	2.25	2.50	2.75	3.00	3.50	4.00
8	EPCC 2.25-8	EPCC 2.50-8	EPCC 2.75-8	EPCC 3.00-8	EPCC 3.50-8	EPCC 4.00-8
12	EPCC 2.25-12	EPCC 2.50-12	EPCC 2.75-12	EPCC 3.00-12	EPCC 3.50-12	EPCC 4.00-12
16	EPCC 2.25-16	EPCC 2.50-16	EPCC 2.75-16	EPCC 3.00-16	EPCC 3.50-16	EPCC 4.00-16
20	EPCC 2.25-20	EPCC 2.50-20	EPCC 2.75-20	EPCC 3.00-20	EPCC 3.50-20	EPCC 4.00-20
24	EPCC 2.25-24	EPCC 2.50-24	EPCC 2.75-24	EPCC 3.00-24	EPCC 3.50-24	EPCC 4.00-24
28	EPCC 2.25-28	EPCC 2.50-28	EPCC 2.75-28	EPCC 3.00-28	EPCC 3.50-28	EPCC 4.00-28
32	EPCC 2.25-32	EPCC 2.50-32	EPCC 2.75-32	EPCC 3.00-32	EPCC 3.50-32	EPCC 4.00-32
36		EPCC 2.50-36	EPCC 2.75-36	EPCC 3.00-36	EPCC 3.50-36	EPCC 4.00-36
40		EPCC 2.50-40	EPCC 2.75-40	EPCC 3.00-40	EPCC 3.50-40	EPCC 4.00-40

