



TECHNICAL DATA SHEET
BD Emerald™ Syringe
Sterile, Single use, Latex Free

GENERAL INFORMATION

Single use latex free sterile syringe, for injection and infusion.

LUER SLIP SYRINGES WITHOUT NEEDLE

Reference	Capacity	Description	Scale Graduation	Box (units)	Case (units)
307727	2 ml	Central cone	0.1 ml	100	3000
302986	3 ml	Central cone	0.1 ml	100	2400
307731	5 ml	Central cone	0.2 ml	100	2000
307736	10 ml	Central cone	0.2 ml	100	1200

LUER SLIP SYRINGES WITH PRE-ATTACHED NEEDLE

Reference	Capacity	Description			Scale Graduation	Box (units)	Case (units)
		Syr. Cone	Gauge	Lenght			
307728	2 ml	Central	22G	1 ¼"	0.1 ml	100	2000
307740	2 ml	Central	23G	1"	0.1 ml	100	2000
307741	2 ml	Central	23G	1 ¼"	0.1 ml	100	2000
307732	5 ml	Central	21G	1 ½"	0.2 ml	100	1500
307733	5 ml	Central	22G	1 ¼"	0.2 ml	100	1500
307735	5 ml	Central	23G	1 ¼"	0.2 ml	100	1500
307737	10 ml	Central	21G	1 ½"	0.2 ml	100	900
307738	10 ml	Central	22G	1 ¼"	0.2 ml	100	900

✧ **MATERIALS**

Barrels, plunger rods.....POLYPROPYLENE
 Stoppers.....LATEX FREE ELASTOMER (TPE)
 Lubricant.....SILICONE OIL, <0.25 µg/mm²

NEEDLE

Needle Hub.....COLOR CODED POLYPROPYLENE
 Needle Shield.....POLYPROPYLENE
 Bonding Agent.....EPOXY
 Needle.....STAINLESS STEEL AISI 304
 (Chromium 18-20%; Nickel 8-12%; Manganese 2%; Silicon 1%)
 Lubricant.....SILICONE, <0.25 µg/mm²

Web packaging.....POLYAMIDE
 Box.....SOFT PAPER

“BD Emerald™ syringe - Sterile”

BD Medical -Medical Surgical Systems
European Distribution Center
57, Laagstraat – 9140 Temse
Belgium



- ✧ PRINT: PERMANENT TYPE BLACK INK
*Resistant to detergent, water, 70% isopropyl & 70% ethyl alcohols
- ✧ LABELS: according to European Medical Device directive and FDA, multilingual
- ✧ ETHYLENE OXIDE STERILIZED: 5 years shelf life
ETO residues within applicable regulations.
Store in dry and warm place. Do not leave exposed to strong light.

The products do not contain natural latex.
The products do not contain di(2ethylhexyl) phthalate DEHP as CAS number 117-81-7, EC number 204-211-0.
For products attached to a needle, Bisphenol A (BPA) as CAS number 80-05-7, EC number 201-245-8, might be found in very low amount (at a concentration inferior to 5ppm) as a residue from the epoxy synthesis processing.

TECHNICAL SPECIFICATIONS

- ✧ PRESSURE RATING.....will withstand 45psi of water for 10 seconds (ANSI/ISO)
- ✧ TIP DIMENSIONS:

<u>I.D.</u>	<u>O.D.</u>	<u>LENGTH</u>
1.775mm	3.875mm – 4.250mm	7.5mm – 8.75mm
	6% taper tip (ANSI/ISO)	
- ✧ DEAD SPACE (maximum, w/o needle) (except for catheter tip syringes)

SYR. SIZE	2ml	3 ml	5ml	10ml
Dead Space	0.07ml	0.07 ml	0.075ml	0.10ml

STANDARDS INFORMATION

ALL SYRINGES MEET THE FOLLOWING STANDARDS:

- EN ISO 7886-1 "Sterile hypodermic syringes for single use"
- EN 20594-1/ISO 594-1 "Conical fitting with 6% (Luer) taper for syringes, needles — Part 1: General Requirements (ISO 594-1:1986) (Slip)."
- ISO 7864 "Sterile hypodermic needles for single use"

- ✧ SCALE MARKINGS– ISO Standard

QUALITY CONTROL:

Incoming raw material is verified via material inspection and/or supplier certification.
In addition to the automatic on-line inspections, in-process inspections are performed.
They include visual inspection, dimensional checks and physical tests.
Sample of finished products are tested for sterility.
Materials are tested for non-toxicity and non-pyrogenicity.

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BD Product Code	BD Manufacturer	ISO Certification	CE Marking	BD Manufacturing Site
307727 307731 307736	Becton Dickinson S.A. - Cra. Mequinenza, s/n. 22520-Fraga (Huesca) Spain	AENOR 0318 – N° ER-0097/1994 – AEMPS ISO 9001:2008; N° 98.06 2006 EN – ISO 13485:2003	AEMPS N°0318 – Certificate n° 2000 06 0272 CP	Becton Dickinson S.A. - Cra. Mequinenza, s/n. 22520-Fraga (Huesca) Spain
307728 307740 307741 307732 307733 307735 307737 307738	Becton Dickinson S.A. - Cra. Mequinenza, s/n. 22520-Fraga (Huesca) Spain	AENOR 0318 – N° ER-0097/1994 – AEMPS ISO 9001:2008; N° 98.06 2006 EN – ISO 13485:2003	AEMPS N°0318 – Certificate n° 95 06 0006 CP	Becton Dickinson S.A. - Cra. Mequinenza, s/n. 22520-Fraga (Huesca) Spain
302986	Becton Dickinson India (P) Ltd. Plot No 1, Sector 3, Industrial Growth Centre Bawal, District Rewari – 123501, Haryana, India	DNV 0434 – N° 20922-2008-AQ- IND-NA- ISO 9001:2008 N° 20924-2008-AQ- IND-NA ISO 13485:2003	DNV 0434 – Certificate n. 68879-2009- CE-IND-NA	Becton Dickinson India (P) Ltd. Plot No 1, Sector 3, Industrial Growth Centre Bawal, District Rewari – 123501, Haryana, India

CE MARK:

- Class I (syringes without needle);
- Class IIa (syringes with needle).

BAR CODE ON SHELF PACK (Box):

EAN 128