

BONA PHARMA Stand Together, Deliver Health

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BONA 博納[®] PHARMA
Stand Together, Deliver Health



Company Profile

Shenzhen Bona Pharma Technology Co., Ltd is the leading professional manufacturer of pharmaceutical primary packaging and drug delivery system in China. The company has constantly been growing since its foundation in 2003.

BONA products are developed and manufactured based on the ISO9001, ISO45001, ISO15378, ISO13485, ISO14001, CFDA, US FDA, EU regulations and have been sold billions of times around the world, global reach to more than 90 countries located in Europe, North America, South America, Asia, Oceania and Africa. BONA has a cGMP compliant plant with a daily capacity of 1.5million unit metered dose spray pumps and 500,000sets of eye droppers, owning 84,299.46 square meters manufacturing factory equipped with state-of-the-art technology.

The factory has established an edge over its competitors enabling it to become the industry benchmark relying on strong innovative ability, large production capacity, short lead time, strict quality management system, reliable product quality and efficient after-sales service. BONA insists on win-win cooperation and offers convenient, efficient & reliable business for clients.

We are always dedicated to a better future for clients worldwide.

'Stand Together, Deliver Health'

R&D Capability

Market Research

* Customers and new needs are the direction of innovation. Our expertise team keeps thinking ahead and watching on market requests & patient expectations, dedicates to providing user-friendly, ergonomic and innovative primary drug delivery systems with high level microbiological safety.

Raw Materials Validation

* Although our primary packaging materials are compatible with a diverse range of liquids, viscosities, suspensions, and formulations, we prioritize comprehensive discussions with our customers before initiating any projects. We tailor our approach based on their specific requirements, including dosing forms, drug characteristics, and raw material compatibility testing. This proactive strategy enables us to mitigate risks effectively and optimize the development of new products.

Design, Development and Industrialization

* More than 80 passionate and professional scientists, experts and engineers devoting themselves to concept generation, devices design, molds development, prototyping, industrialization. Spray pattern, droplet size distribution and plume geometry, etc. can be tested inside factory. Keeping pursuit of continuous quality improvement and process optimization.



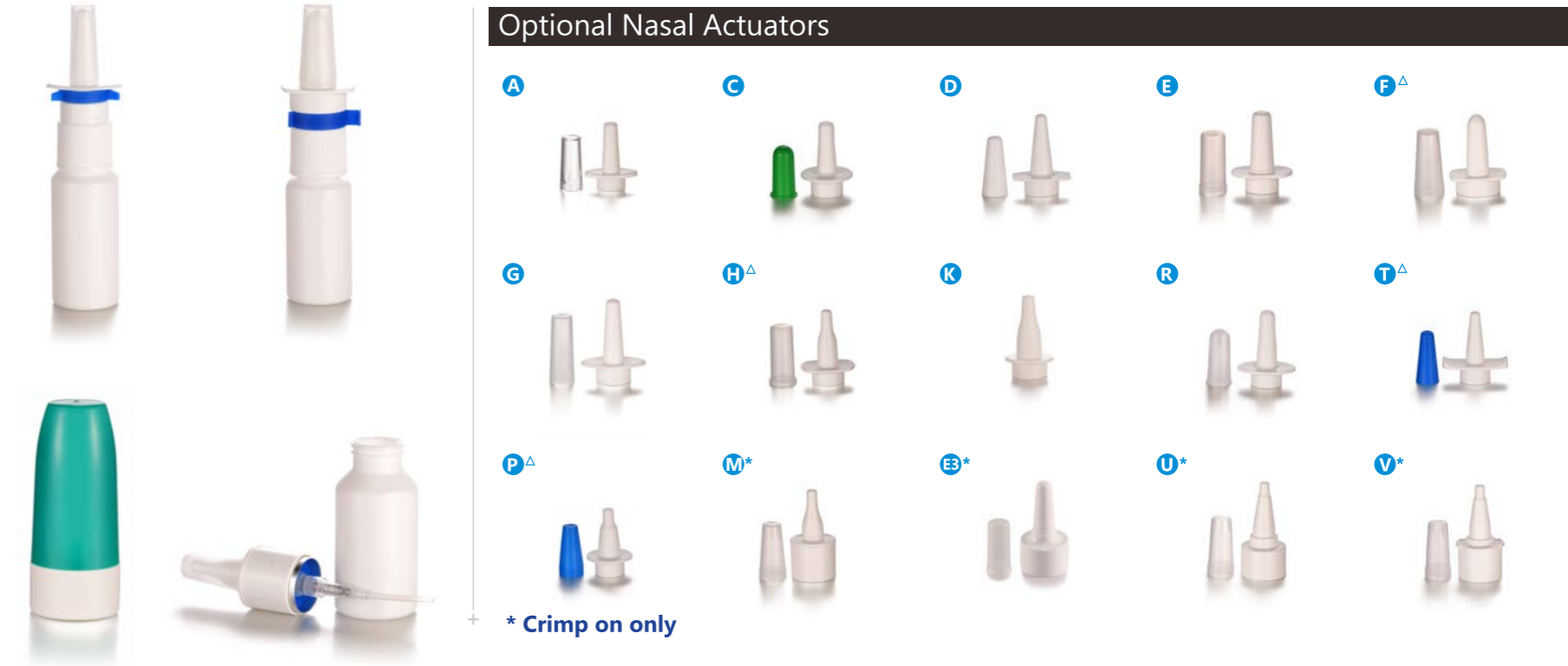
Portfolios

- Nasal spray pump **Page 3**
- Oral spray pump **Page 4**
- Topical spray pump **Page 5**
- Ear spray pump **Page 6**
- Closures **Page 7**
- Closures **Page 8**
- Innovation & patented products **Page 9**
- Innovation & patented products **Page 10**
- Innovation & patented products **Page 11**
- IVBE **Page 12**
- IVBE **Page 13**
- Pulmonary **Page 14**

- Ophthalmic **Page 15**
- Gynaecology & Proctology **Page 16**
- Bottle(one) **Page 17**
- Bottle(two) **Page 18**
- Bottle(three) **Page 19**
- Bottle(four) **Page 20**
- Vaccine Applicator **Page 21**
- Reagent bottle **Page 22**
- Qualification & Certificates **Page 23**
- Production Capability **Page 24**
- Patents **Page 25**

Nasal Spray Pumps

Multi-dose Nasal Spray Pumps



Main Parameters:

Dosage: 45mcl to 220mcl

Compatible neck size: 18/410, 18/415, 18GL, 18TE, 18DIN, 20/410, 24/410 for screw-on
 20mm for snap-on
 20mm for crimp-on

Key Features:

- Precise dosage, excellent spray atomization
- Universal and modular design, stable performance & anti-clogging
- Fully physical & chemical validation, high level microbiological safety
- Comply with CP, EP, USP food & drug direct contact regulations
- US DMF# 036525
- CE Certificate

Oral Spray Pumps

Multi-dose Oral Spray Pumps



Optional Oral Actuators

L



O*



J



I*



SR



LR



3''



N*



SF1



SF2



SF3



LF



* Crimp on only

Main Parameters:

Dosage: 45mcl to 220mcl
 Compatible neck size: 18/410, 18/415, 18GL, 18TE, 18DIN, 20/410, 24/410
 for screw-on
 20mm for snap-on
 20mm for crimp-on

Key Features:

Precise dosage, excellent spray atomization
 Universal and modular design, stable performance & anti-clogging
 Fully physical & chemical validation, high level microbiological safety
 Comply with CP, EP, USP food & drug direct contact regulations
 US DMF# 036525
 CE Certificate

DP1



Z*



Main Parameters:

Dosage: 45mcl to 220mcl
 Compatible neck size: 18/410, 18/415, 18GL, 18TE, 18DIN, 20/410, 24/410 for screw-on
 20mm for snap-on
 20mm for crimp-on

Key Features:

Precise dosage, excellent spray atomization
 Universal and modular design, stable performance & anti-clogging
 Fully physical & chemical validation, high level microbiological safety
 Comply with CP, EP, USP food & drug direct contact regulations
 US DMF#036525
 CE Certificate



Airless Pump



Topical spray Pumps

Multi-dose Topical Spray Pumps

Optional Topical Actuators

Dp2



CM



NM



MM



Sealing Cover
 Size : 22x22x54.03 (mm)

Ear Spray pumps

Multi-dose Ear Spray Pumps

Optional Ear Actuators

SF1



ES1



SF2



LF



Main Parameters:

Dosage: 45mcl to 220mcl

Compatible neck size: 18/410, 18/415, 18GL, 18TE, 18DIN, 20/410, 24/410 for screw-on

20mm for snap-on

20mm for crimp-on

Key Features:

Precise dosage, excellent spray atomization

Universal and modular design, stable performance & anti-clogging

Fully physical & chemical validation, high level microbiological safety

Comply with CP, EP, USP food & drug direct contact regulations

US DMF#036525

CE Certificate



Closures

Screw on



18/410



18/415



18Din



18GL



18TE

Dosage (mcl)	25	45	50	65	67	70	78	85	90	220
	100	110	120	130	140	150	170	180	200	



20/400



20/410



20/415

Dosage (mcl)	25	45	50	65	67	70	78	85	90	220
	100	110	120	130	140	150	170	180	200	



24/410

Dosage (mcl)	100	143	170	210
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Closures

Snap on



15mm

Dosage (mcl) 80



20mm

Dosage (mcl)	25	45	50	65	67	70	78	85	90	220
	100	110	120	130	140	150	170	180	200	220

Crimp on



20mm/G1



20mm/G2



20mm/G3

Dosage (mcl)	25	45	50	65	67	70	78	85	90	220
	100	110	120	130	140	150	170	180	200	220

Innovation & Patented Products



Child Resistant Nasal Spray Pump

- Key Features:
- Comply with 16CFR1700.20
- Tamper-evident closure
- 15ml and 30ml HDPE bottle are available
- Invention Patented in China, USA, Europe and Korea



Snap On Child Resistant Nasal Spray Pump

- Key Features:
- Comply with 16CFR1700.20
- Dosage : 50mcl,100mcl
- Diverse Capacity and Materials Bottle Optional
- Snap-on Closure



Preservative Free Nasal Spray Pump

- Key Features:
- 0.22µm Air Filter Membrane
- Independent Air Back Filter and Solutions Dosing Tract
- Dosages available: 45,50,70,100,140 mcl
- Patented invention
- No need preservative in formulations

Innovation & Patented Products



Nasal Spray for IVBE Project

Key Features:
 IVBE API: Mometasone Furoate
 Tamper Evident Closure
 Successful IVBE project
 Dosage : 50mcl to 100mcl



Upside-Down Nasal Spray

Key Features:
 Dosage: 120mcl
 Compatible neck size:
 18/410,18/415,18GL,18TE,18DIN,20/410,24/410 for screw-on
 20mm for Snap-on
 20mm for Crimp-on



Metal Free Nasal Spray

Key Features:
 All parts and components are made of plastic
 0.22µm Air Filter Membrane
 Independent Air Back Filter and Solutions Dosing Tract
 Dosages available: 45,50,70,100,140 mcl
 Patented invention

Innovation & Patented Products



Eye Dropper Bottle System

Key Features:
 With fixed tamper evident ring
 Every drop counts: exact dosage
 Dosages available: 0.05ml
 5ml and 10ml bottle,PE,PP Materials Optional
 Suitable for various formulations and viscosities



Preservative Free Eye Drop Bottle System

Key Features:
 Air filter membrane
 Passed microbiological challenging test
 5ml, 10ml volume available



Preservative Free Eye Drop Pump System

Key Features:
 Drop volume 0.04ml±20%/press
 Applicable to 15ml, 10ml snap bottle containers
 Three-level microbial protection system design
 Applied for appearance and invention patents
 Suitable for conventional standard snap filling lines
 Comply with EU, EP, USP Regulatory Requirements
 Air filter membrane

InVitro Bioequivalence Study for Nasal Sprays

The application of in vitro bioequivalence approaches is recognized by regulators as a key enabler for the effective development of complex generic drug formulations. Correlative method and the tests to prove the in-vitro equivalence between 2 Nasal Spray Devices: Originator (Reference) and Generic product (Test).

Reference is the Target defined with 3 batched of 10 originators.

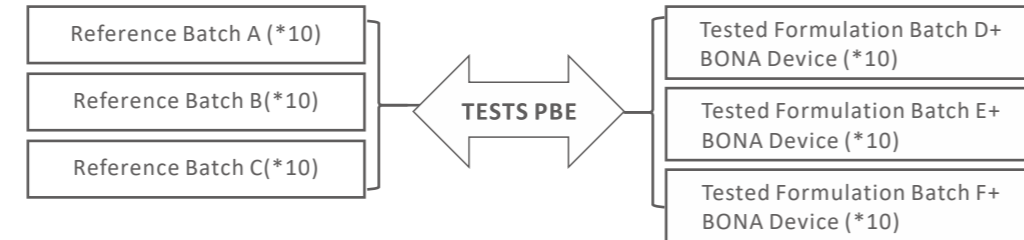
TESTS	Required by FDA	Performed by BONA
Dose Delivery	✓	✓
Droplet Size Distribution(DSD)	✓	✓
Spray Pattern(SP)	✓	✓
Plume Geometry(PG)	✓	✓
Drug in small particles/droplets (Cascade Impactor)	✓	✗
PSD (Particle Size Distribution by microscopy)	✓	✗
Priming/Repriming	✓	✗

✓ Performed by BONA
✗ Not performed by BONA

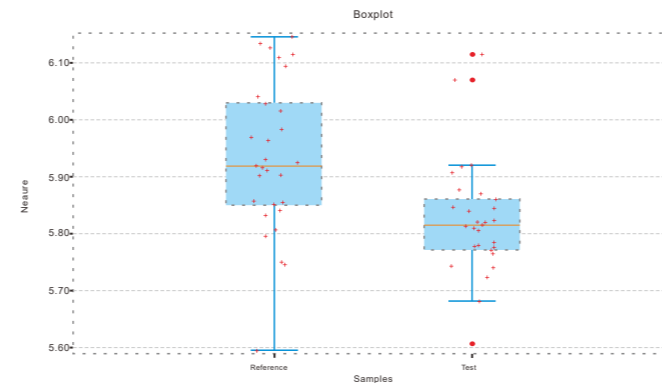
Spray Performance Test Parameters	Statistics Approach for Bestudy	
DSD	D10/um	Informative Data
	D50/um	PBE
	D90/um	Informative Data
Spray pattern	Span	PBE
	D min(mm)	Informative Data
	D max(mm)	Informative Data
Plume Geometry	Ovality	PBE
	Area (mm ²)	
	Plume Angle	
	Plume Width (mm)	90 111 % Ratio of Geometric Means

DISTANCE	DOSE		DSD		Spray Pattern		Plume Geometry	
	Shot Weight	Priming	D50	SPAN	Ovality	Area	Angle	Width
3CM	101%	101%	99%	100%	97%	97%	/	/
6CM			106%	98%	95%	94%	103%	103%

xx%: comparison mean Test/mean Reference



Originator: Azelastine Hydrochloride Nasal Spray



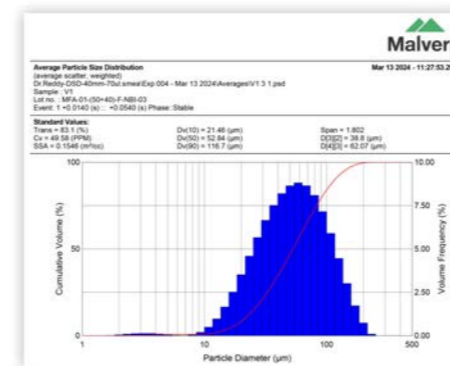
Tested by BONA Device

Population Bio Equivalent
Population Non Bio Equivalent

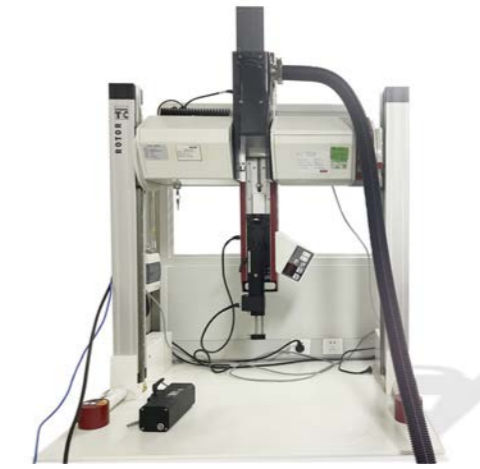
Spray Analysis & Research Services

The laboratory is CNAS certified, which is in compliance with ISO17025.

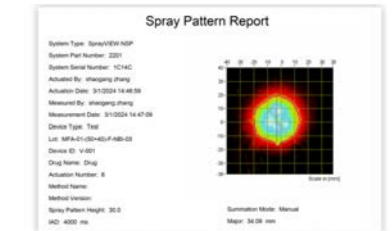
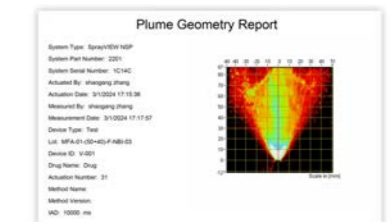
*Malvern|Droplet Size Distribution



*SYMPATEC|Droplet Size Distribution



*PROVERIS|Spray Pattern and Plume Geometry



Pulmonary

Pressurized Metered Dose Inhaler(pMDI)

Droplet size: <5um

Valve stem size Ø2.8mm, Ø3.0mm, Ø3.16mm

Applicable to 10ml, 14ml and 19ml canisters

Available dosage: 25mcl, 35mcl, 50mcl, 63mcl, 75mcl, 100mcl, 130mcl

Accurate dosage

ISO15378 Certified

Compatible with HFA solution and suspension formulation

Aerodynamic tests can be performed

Materials comply with CP, EP, USP food & drug direct contact regulations

Customized design and development available



NO#	Components	Inhaler capacity(ml)	Height(mm)	L*W(mm)	Weight(g)	Materials	Neck size(mm)	Total Height(mm)	Item code
1	Valve	10	27.4	21.0*21.0	3.2	PP	20	81.3	BONA20PMDI
	Cap	14	15.6	28.4*17.8	1.3	PP			
	Housing	19	81.3	43.0*28.4	8.3	PP			
2	Cap	3# capsule	55.2	33.8*23.2	8.4	Medical ABS	18	68.8	BONA20NDPI
	Inhaler		67.3	39.8*21.4	13.6	Medical ABS			
3	Cap	3# capsule	43.2	32.5*22.5		Medical ABS		56.0	
	Inhaler		52.5	40.0*20.5		Medical ABS			
4	Cap	3# capsule	55.6	43.0*22.5		Medical ABS		56.0	
	Inhaler		52.5	40.0*20.5		Medical ABS			

Dry Powder Inhaler(DPI)

Applicable to capsule 3#

Single dose

ISO13485 Certified

Device used for COPD and Asthma treatment medicine

Aerodynamic tests can be performed

Materials comply with CP, EP, USP food & drug direct contact regulations

Customized design and development are available

Ophthalmic

NO#	Components	Shoulder capacity(ml)	Brimful capacity(ml)	Height (mm)	L*W (mm)	Weight (g)	Materials	Neck size (mm)	Total Height(mm)	Item code
1	Cap	5	8	30.0	20.5*20.5	1.6	PP	15	52.9	BONA5664AAC
	Dropper			20.4	11.6*11.6	0.6	PP			
	Bottle			39.8	21.0*21.0	2.3	LDPE			
2	Cap	10	12	30.0	20.5*20.5	1.6	PP	15	63.5	BONA5662A6C
	Dropper			20.4	11.6*11.6	0.6	PP			
	Bottle			49.8	22.3*22.3	3.0	LDPE			
3	Cap	5	10	28.0	19.4*19.4	1.64	PP	15	57.8	BONA4R0399F
	Dropper			16.2	10.9*10.9	0.43	PP			
	Bottle			43.3	20.0*20.0	2.93	LDPE			
4	Cap	5	10	30.4	20.1*20.1	1.8	HDPE	14	56.7	BONA5722A6C
	Dropper			18.7	12.5*12.5	0.5	LDPE			
	Bottle			43.6	21.3*21.3	2.3	PP			
5	Cap	5	10	30.4	20.1*20.1	1.8	HDPE	14	56.7	BONA5722A6C
	Dropper			18.7	12.5*12.5	0.5	LDPE			
	Bottle			43.6	21.3*21.3	2.3	PP			
6	Cap	10	12	31.9	20.55*20.55	1.4	PE	14	64.5	BONA5815AAC
	Dropper			18.85	12.4*12.4	0.4	PE			
	Bottle			51.9	24.2*24.2	3.6	PE			
7	Cap	9	11	28.0	19.5*19.5	1.6	PE	15	64.7	BONA4R0397F
	Dropper			16.2	11.1*11.1	0.5	PE			
	Bottle			52.0	22.0*22.0	3.8	PE			
8	Cap	15	17	28.0	19.5*19.5	1.6	PE	15	81.9	BONA4R0398F
	Dropper			16.2	11.1*11.1	0.5	PE			
	Bottle			69.9	22.6*22.6	4.9	PE			
9	BFS Cap			25.1	19.1*19.1	1.87	PP			BONA3920A6A



Main Parameters:

Bottle volume: 5ml, 9ml, 10ml, 15ml

Materials: HDPE, LDPE, PP

Key Features:

Tamper evident cap design

Produced in Class D and Class C+A clean rooms

Fully physical & chemical validation, high level microbiological safety

Optional sterilization: EO, E-beam & Gamma irradiation

Comply with CP, EP, USP food & drug direct contact regulations

Gynaecology & Proctology

NO#	Components	Shoulder capacity(ml)	Brimful capacity(ml)	Height (mm)	L*W (mm)	Weight (g)	Materials	Neck size (mm)	Total Height(mm)	Item code
1	Applicator	50	55	102.7	23.0*23.0	4.5	PP	20	144	BONA5775A6E
	Bottle			71.8	43.5*43.5	6.5	LDPE			
2	Applicator	100	114	102.7	23.0*23.0	4.5	PP	20	185.5	BONA5539ABE
	Bottle			97.5	52.0*52.0	15.4	LDPE			
3	Applicator	500	520	108.2	34.4*34.4	9.5	PP	30	233.2	BONA5530A6V
	Bottle			146.0	88.0*88.0	62.0	LDPE			
4	Applicator	150	160	79.2	22.5*22.5	2.5	PE	20	190	BONA4R0271F
	Bottle			121.78	50.0*50.0	16.0	LDPE			

NO#	Dose form	Capacity(g)	Length(mm)	Diameter(mm)	Materials	Item code
5	Gel	3	84.37	16.0*27.8	PP	BONA4G0023F
6	Gel	5	94.0	16.0*27.8	PP	BONA4G0006F
7	Gel	10	102.0	21.65*31.55	PP	BONA4G0026F
8	Gel	5	97.2	19.1	LDPE	BONA4G0045F

Main Parameters:

Neck size: 20mm, 30mm
 Douche bottle volume: 50ml, 100ml, 150ml, 500ml
 Gel applicator & tube: 3g, 5g, 10g
 Materials: HDPE, LDPE, PP

Key features:

Comfortable design with smooth applicator surface to avoid self-injury
 Compatible with gel and cream
 Non-sensitizing, non-toxic and non-irritating
 Vaginal applicator can be prefilled
 Comply with CP, EP, USP food & drug direct contact regulations



Bottle

Main Parameters:

Neck size: 20mm
 Compatible with snap-on, crimp-on closure
 Bottle capacity: 10ml, 15ml, 20ml, 30ml, 40ml, 50ml
 Material: HDPE
 Produced in class D clean room
 Comply with CP, EP, USP food & drug direct contact regulations



NO#	Shoulder capacity(ml)	Brimful capacity(ml)	Height (mm)	Diameter (mm)	Weight (g)	Materials	Neck size (mm)	Item code
1	10	16	49.3	25.8	4.7	HDPE	20	BONA5692A6C
2	15	20	55.3	25.3	4.6	HDPE	20	BONA5646A6C
3	20	26	51.7	30.8	5.0	HDPE	20	BONA5635A6C
4	20	24	64.4	25.3	4.4	HDPE	20	BONA5748A6C
5	30	34	64.5	30.5	5.9	HDPE	20	BONA5639A6C
6	40	44	65.4	35.0	7.0	HDPE	20	BONA5669A6C
7	50	62	70.4	40.0	8.7	HDPE	20	BONA5749A6C

Main Parameters:

Neck size: 18mm(18/415,18TE), 20mm(20/410, 50ml, 60ml, 100ml)
 Compatible with screw-on closure
 Bottle capacity: 7ml, 10ml, 15ml, 20ml, 25ml, 30ml, 50ml, 60ml, 100ml
 Material: HDPE
 Produced in class D clean room
 Comply with CP, EP, USP food & drug direct contact regulations



NO#	Shoulder capacity(ml)	Brimful capacity(ml)	Height (mm)	Diameter (mm)	Weight (g)	Materials	Neck size (mm)	Item code
S-1	7	11	45.5	22.0	2.7	HDPE	18/415	BONA5784A6C
S-2	10	14	51.5	23.6	4.0	HDPE	18/415	BONA5638A6C
S-3	15	19	60.2	24.2	4.2	HDPE	18/415	BONA5684A6C
S-4	20	22	59.5	27.5	5.0	HDPE	18/415	BONA5680A6C
S-5	20	24	67.0	25.8	4.65	HDPE	18/415	BONA5676A6C
S-6	25	30	66.0	30.0	6.0	HDPE	18/415	BONA5729AAC
S-7	30	33	68.0	31.5	6.3	HDPE	18/415	BONA5681A6C
S-8	10	12	42.0	30.2*37.8	4.0	HDPE	18TE	BONA5654AAC
S-9	30	38	73.0	31.5	7.3	HDPE	18TE	BONA5721A6C
S-10	50	57	82.5	35.2	9.0	HDPE	20/410	BONA5679AAC
S-11	60	77	93.0	36.0	8.5	HDPE	20/410	BONA5730A6C
S-12	100	106	108.5	41.0	15.5	HDPE	20/410	BONA5746A6C

Bottle

Main Parameters:

Neck size: 18mm(18/415), 20mm(20/410), 24mm(24/410), 25mm, 28mm

Compatible with screw-on closure

Bottle capacity: 10ml, 15ml, 20ml, 30ml, 50ml, 60ml, 100ml, 120ml

Material: PET

Produced in class D clean room

Comply with CP, EP, USP food & drug direct contact regulations



NO#	Components	Shoulder capacity(ml)	Brimful capacity(ml)	Height (mm)	Diameter (mm)	Weight (g)	Materials	Neck size (mm)	Total Height(mm)	Item code
1	Bottle	10	14	49.7	24.0	4.5	PET	18/415	49.7	BONA5720A6D
2	Bottle	15	19	61.5	24.2	6.0	PET	18/415	61.5	BONA5714A6D
3	Bottle	20	23	69.5	25.0	6.2	PET	18/415	69.5	BONA5676A6D
4	Bottle	30	34	79.0	28.2	8.0	PET	18/415	79.0	BONA5673A6D
5	Bottle	50	56	81.8	34.6	10.5	PET	20/410	81.8	BONA5704A6D
6	Bottle	60	63	82.8	36.0	10.5	PET	20/410	82.8	BONA5683A6D
7	Bottle	100	118	102.0	45.0	16.0	PET	24/410	102.0	BONA5759A6D
8	Cap	100	118	21.3	28.3	2.8	PE	25	98.75	BONA4R0218F
	Bottle			96.5	48.0	16.2	PET			
9	Dose cup	120	134	33.0	40.4	3.3	PP	28	143.7	BONA4R0310F
	Cap			24.48	31.4	4.1	HDPE			
	Bottle			138.0	50.4*33.6	23.0	PET			

Bottle

Main Features:

Bottle shape and volume can be customized

Universal and compatible with 18/415, 20/410 and 24/410 closure spray pumps

Produced in class D clean room

Comply with CP, EP, USP food & drug direct contact regulations



NO#	Components	Shoulder capacity(ml)	Brimful capacity(ml)	Height (mm)	L*W (mm)	Weight (g)	Materials	Neck size (mm)	Total Height(mm)	Item code
1	Cap	15	20	69.5	25.0*25.0	4.5	PP	18/415	107.5	BONA4P00390
	Bottle			58.0	25.5*25.5	4.5	HDPE			
2	Cap	15	30	28.5	18.9*18.9	1.4	PP	16	90.34	BONA5683A6C
	Dropper			27.6	12.0*12.0	0.9	PE			
	Dip tube			84.0	3.15*3.15	0.58	PE			
	Bottle			72.0	22.23*45.9	6.7	LDPE			
3	Cap	15	35	27.7	20.0*20.0	1.85	HDPE	14	86.39	BONA5764A6C
	Dropper			19.25	11.4*11.4	0.65	LDPE			
4	Bottle	20	26	74.8	38.4*27.4	7.50	LDPE	18/415	107.5	BONA4P00320
	Cap			69.5	25.0*25.0	4.5	PP			
5	Bottle	15	20	58.0	30.7*30.7	5.7	HDPE	18/415	90.3	BONA5654AAC
	Cap			68.3	37.5*28.3	7.3	PP			
6	Bottle	25	30	42.0	30.2*37.8	4.0	HDPE	18/415	93.8	BONA5706A6C
	Cap			70.85	33.9*25.9	6.8	PP			
7	Bottle	30	36	68.7	28.9*36.6	7.8	HDPE	18/415	104.4	BONA5688A6C
	Cap			70.85	33.9*25.9	6.8	PP			
8	Bottle	80	98	76.1	29.0*35.53	7.6	HDPE	20/410	130.36	BONA5499A6E
	Cap			74.59	48.78*36.78	9.9	PP			
9	Bottle	200	250	104.0	38.0*48.7	16.3	HDPE	24	160.0	BONA4R0238F
	Cap			35.8	29.5*29.5	4.8	PP			
	Dropper			27.0	28.7*28.7	1.5	PP			
	Dip tube			149.0	9.2*9.2	4.8	LDPE			
10	Bottle	120	135	133.5	58.4*58.4	24.6	LDPE	24/410	157.7	BONA5738A6C
	Cap			54.5	42.7*42.7	8.6	PP			
11	Bottle	100	125	126.7	43.0*43.0	20.7	HDPE	20/410	153.66	BONA5687A6C
	Cap			47.0	37.5*37.5	6.2	PP			
12	Bottle	80	87	125.5	38.0*38.0	15.7	HDPE	20/410	132.16	BONA5686A6C
	Cap			47.0	37.5*37.5	6.2	PP			
13	Bottle	50	70	104.0	38.0*38.0	14.2	HDPE	20/410	112.6	BONA5531A6E
	Cap			47.0	37.5*37.5	6.2	PP			
14	Bottle	30	39	84.9	38.0*38.0	12.0	HDPE	20/410	103.3	BONA5689A6C
	Cap			46.85	30.0*30.0	5.5	PP			
	Bottle			73.9	30.7*30.7	8.0	HDPE			

Tablet Bottle



Main features:

- Bottle capacity: 25ml, 30ml, 70ml, 100ml
- Material: HDPE for bottle
- HDPE, HDPE: LDPE, PP for cap
- Child resistant cap and tamper evident cap
- Produced in Class D clean room
- Suitable for Capsule, Tablet and Powder
- Comply with CP, EP, USP food & drug direct contact regulations
- US DMF# 036728
- Customized design and development available

NO#	Components	Shoulder capacity(ml)	Brimful capacity(ml)	Height (mm)	Diameter (mm)	Weight (g)	Materials	Neck size (mm)	Total Height(mm)	Item code
1	Cap	25	30	13.0	30.8	2.50	HDPE	28	52.7	BONA5620ABN
	Bottle			50.5	32.1	5.54	HDPE			
2	Cap	30	41	26.2	36.5	4.9	HDPE:LDPE	32	59.5	BONA5626A6C
	Bottle			57.7	37.3	8.7	HDPE			
3	Cap	70	91	17.2	43.6	4.0	PP	38	69.8	BONA5699AAC
	Bottle			65.6	48.7	14.5	HDPE			
4	Cap	100	128	17.5	46.5	4.5	PP	40	88.06	BONA5658A6C
	Bottle			84.0	50.5	19.0	HDPE			

Vaccine Applicator

Main Features:

- 1ml single-dose for oral vaccine
- 1ml innovative syringe pattern flu vaccine sprayer
- Optional sterilization: EO, E-beam & gamma irradiation
- Produced in class D, Class C+A clean room
- Comply with CP, EP, USP food & drug direct contact regulations



NO#	Components	Shoulder capacity(ml)	Brimful capacity(ml)	Height (mm)	L*W (mm)	Weight (g)	Materials	Neck size (mm)	Total Height(mm)	Item code
1	Single dose vial	1	2	57.3	105.0*11.0	5.75	LDPE	5.8	57.0	BONA3265AAA
2	Intranasal Mucosal Atomization Device	0.2	0.5	114.8	20.3*18.5	5.5	PP+COP	6.7	114.8	BONA3221SSA

Reagent Bottle

Main Features:

Bottle capacity: 20ml, 40ml, 62ml, 500ml, 1L, 5L, 10L

Material: HDPE for bottle and PP&PE for cap

Produced in class D clean room

Comply with CP, EP, USP food & drug direct contact regulations

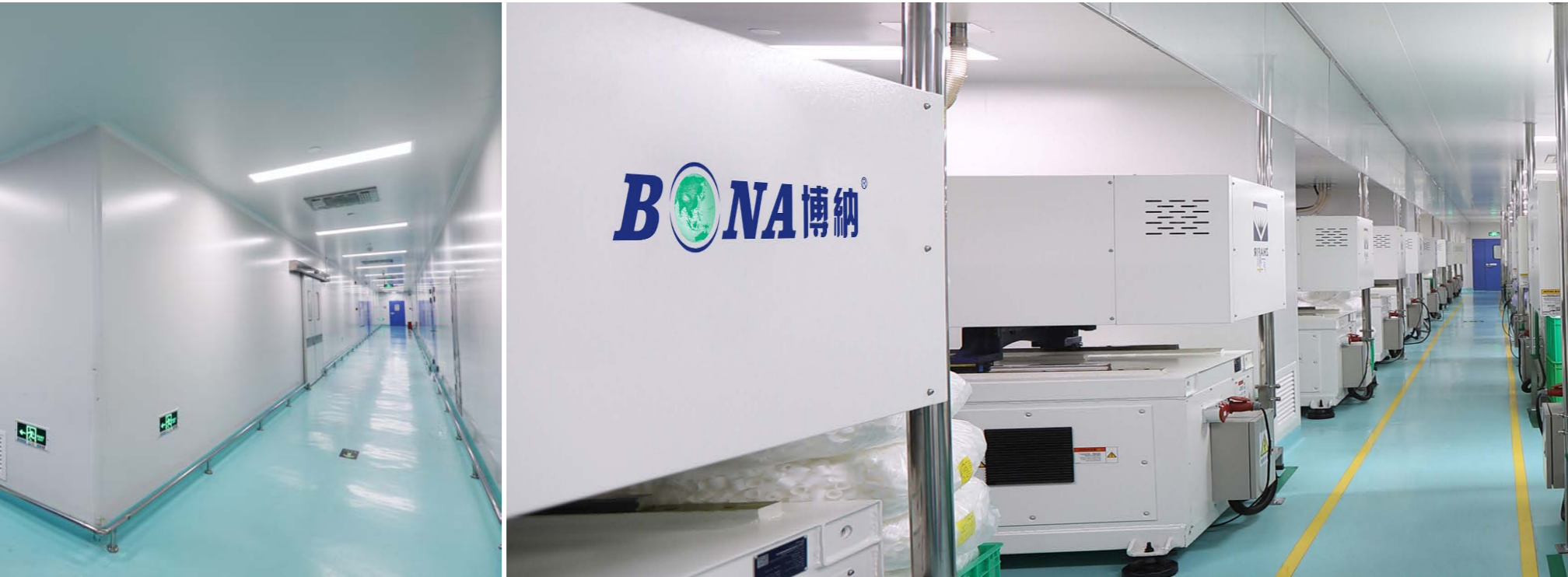


NO#	Components	Shoulder capacity(ml)	Brimful capacity(ml)	Height (mm)	L*W (mm)	Weight (g)	Materials	Neck size (mm)	Total Height(mm)	Item code
1	Cap	62ml	66	10.9	20.5*20.5	1.3	PP	18	57.0	BONA5749AIE
	Bottle			97.9	79.3*17.6	19.8	HDPE			
2	Cap	40ml	48	10.9	20.5*20.5	1.3	PP	18	99.9	BONA5484AIE
	Bottle			97.7	44.4*19.4	9.5	HDPE			
3	Cap	20ml	27	8.9	16.0*16.0	0.7	PP	13	10.6	BONA4R0206F
	Bottle			101.0	23.7*23.7	6.0	HDPE			
4	Cap	500ml	571	31.6	40.0*40.0	8.0	PP	36	189.5	BONA5317ABE
	Bottle			187.5	65.0*65.0	80.0	HDPE			
5	Cap	1L	1070	31.6	40.0*40.0	8.0	PP	36	189.0	BONA5058ABE
	Bottle			188.0	90.0*90.0	108.0	HDPE			
6	Cap	5L	5120	31.6	40.0*40.0	8.0	PP	35	332.0	BONA5777ABE
	Bottle			329.5	240.0*105.0	320.0	HDPE			
7	Outer Cap	10L	11000	24.3	51.4*51.4	7.1	PP	48	340.0	BONA5454A6E
	Inner Cap			1115.0	44.7*44.7	3.4	PE			
	Bottle			338.0	225.0*188.0	518.0	HDPE			
8	Bottle	0.7ml	0.75ml	29.85	10.0*10.0	0.56	PS	10.0	29.85	BONAEXTCM01
9	Bottle	3ml		64.5	15.2*15.2		PP		64.5	

- Certified by ISO15378:2017 and ISO14001, ISO13485
- Audited by a third authorized organization twice yearly
- CFDA certified manufacturer of pharmaceutical packaging materials and medical devices
- Fully chemical & physical validation before projects are activated
- Appearance, size and function tests are performed in certain time during production
- Microbial limitation test implemented & approved before goods released
- Production batch records are kept for ten years and can be traced in each order



Production Capability



- * 30,149.52 SQM workshop
- * 10,819.0 SQM clean room
- * Class C+A, Class D clean rooms
- * 89 injection molding machines
- * 14 injection blow molding machines
- * 17 automatic assembly lines
- * 1.5 million pumps per day
- * 500 thousand sets of eye dropper bottle systems per day

Invention & Utility Patents

- * 8 International Invention Patents
- * 12 National Invention Patents
- * 46 Utility Patents
- * 9 Design Patents

