

AENOVA CAPABILITIES

As a leading global contract development and manufacturing organization, we offer extensive capabilities for Solids, Steriles, Semi-Solids, Liquids, and Packaging. Our 8 development centers and 14 production sites in Europe and the USA service projects from pre-clinical phase to global scale commercial production.

Solids & Softgels – Bulk

Sites	BAA	COR	GRO	KIL	KIR	LAT	MRB	MST	RBG	SIS	TIM
Tablets											
Immediate Release			●			● ³	●	● ¹	● ¹	●	●
Controlled Release			●			● ³	●	● ¹	● ¹	●	●
Film Coated			●			● ³	●	● ¹	● ¹	●	●
Sugar Coated			●					● ¹	● ¹	●	●
Bilayer										●	
Chewables / Lozenges			●			●	●			●	●
Effervescent Tablets	●						●			●	
Orally Disintegrating Tablets			●				●	●	●	●	●
Hard Gel Capsules											
Powders / Granulates				●		● ³	●		● ¹	●	●
Micro-dosed capsules (from 1mg fill mass)								●			
Pellets (Designed Release)				●			●		● ¹		
Tablet in a Capsule							●				
Mini / Micro Tablets							●		● ¹		
Film Coated							●		● ¹	●	●
Penicillins (Tablets, Capsules, Dry Powders)											
						●					
Dry Powder Inhalation											
								● ²			
Powders / Granulates for Oral Solutions											
Powders / Granulates	●		●			●				●	
Effervescent Powders / Granulates	●									●	
Gummies (Chewable Gels)											
		●									
Softgel Capsules											
Soft Gelatine Capsules		●			● ¹						
VegaGels®		●									
Bioavailability Enhancing Technologies											
Hot Melt Extrusion									●	●	
Spray Drying				●							
Lipid Based Formulations		●					●				
Hormones											
								● ⁷			
Controlled Substances											
	●		●		●		●	●		●	●
Occupational Exposure Limits (µg/m³)											
OEB 1 (10,000 to 1,000)	●	●	●		●	●	●	●	●	●	●
OEB 2 (1,000 to 100)	●	●	●		●	●	●	●	●	●	●
OEB 3 (100 to 10)	●	●	● ⁶	●	●	●	● ⁶	●	●	●	● ⁶
OEB 4 (10 to 1)					●	● ⁶		●	●		
OEB 5 (1 to 0.01)					●			●	●		
Animal Health											
			● ⁴			● ⁵		● ⁴	● ⁴		

Solids & Softgels - Bulk

- ¹ Including Highly Potent APIs
- ² Only Highly Potent APIs
- ³ Including anti-infectives (Penicillins)
- ⁴ Only if API is common to Human Health
- ⁵ Dedicated plant for Animal Health products incl. Parasiticides
- ⁶ Molecule dependent
- ⁷ Including reproductive hormones

Steriles

- ⁸ API must also be used for human application (exception intramammary syringes at LAT)
- ⁹ Powder filling into vials for penicillins only

Site Abbreviations

BAA – Bad Aibling, DE	KIR – Kirchberg, CH
CAR – Carugate, IT	LAT – Latina, IT
COR – Cornu, RO	MRB – Marburg, DE
FKB – Feldkirchen, DE	MST – Münster, DE
GRB – Greensboro, US	RBG – Regensburg, DE
GRO – Gronau, DE	SIS – Sisseln, CH
KIL – Killorglin, IE	TIM – Tittmoning, DE

Steriles

Sites	LAT
Aseptic Processing	●
Terminal Sterilization	●
Small Molecule	●
Biologics (up to BSL 2)	●
Occupational Exposure Limits (µg/m³)	
OEB 1 (10,000 to 1,000)	●
OEB 2 (1,000 to 100)	●
OEB 3 (100 to 10)	●
OEB 4 (10 to 1)	
OEB 5 (1 to 0.01)	
Betalactams: Penicillin	
Sterile Powder for Injection	●
Sterile Liquid Vials	●
Sterile Intramammary Syringes	●
Betalactams: Cephalosporin	
Sterile Intramammary Syringes	●
Controlled Substances	
Animal Health	● ⁸
Glass Vials - Liquid	2R-50R
Plastic Vials - Liquid	2R-10R
Glass Vials - Powder Filling	5-250ml ⁹
Prefilled Syringes (glass & plastic)	0.5ml-10ml
Glass Cartridges	1-20ml
Intramammary Syringes - Animal Health	5-12ml

Semi-Solids & Liquids - Bulk & Packaging

Sites	BAA	CAR	FKB
Suppositories/Vaginal Ovules			
Plastic (ie. PVC/PE)		●	
Foil (ie. Alu/PE)		●	
Creams/Ointments/Gels			
Tubes		●	●
Bottles, Droppers		●	
Pumps		●	
Sprays			● ¹³
Jars		●	
Sachets	●		● ¹³
Liquids (Non Sterile)			
Emulsions		● ⁵	● ¹
Suspensions		●	
Bottles		●	
Nasal Sprays		● ²	
Droppers		●	
Pumps		●	
Foams		● ⁶	● ⁶
Hormones			
		● ³	● ³
High Potent			
			●
Controlled Substances			
			●
Occupational Exposure Limits (µg/m³)			
OEB 1 (10,000 to 1,000)		●	●
OEB 2 (1,000 to 100)		●	●
OEB 3 (100 to 10)		●	●
OEB 4 (10 to 1)		●	●
OEB 5 (1 to 0.01)		● ⁷	
Animal Health			
		● ⁴	● ⁴

Semi-Solids & Liquids

- ¹ Bulk only, no packaging (alcohol content up to 30 %)
- ² Not pressurized
- ³ Only corticosteroids
- ⁴ Only if API is common to Human Health
- ⁵ Including flammables (ATEX area)
- ⁶ Bulk only (pressurization performed externally)
- ⁷ Molecule dependent

Solids - Packaging

- ⁸ Multi-Tablet Blister
- ⁹ Pouching
- ¹⁰ Secondary packaging
- ¹¹ RF sealing of clam shells
- ¹² Face seal blistering
- ¹³ External Partner
- ¹⁴ Including tropical blisters

Solids & Softgels - Packaging

Sites	BAA	COR	GRB	GRO	KIR	LAT	MRB	MST	RBG	SIS	TIM
Tablets											
Bottles			● ^{10/11/12}	●			●	●	●		
Blisters	● ⁸		● ¹¹	●		●	● ⁸	● ^{8/9}	●	●	●
Strips	●					●					
Sachets										● ¹⁰	
Tubes	●		● ¹¹				●			●	
Hard Gel Capsules											
Bottles			● ^{10/11/12}	●			●	●	●		
Blisters	● ⁸		● ¹¹	●		●	● ⁸	● ^{8/9}	●	●	●
Dry Powder Inhalation (micro-dosed capsules)											
Combination packaging (incl. device)								●			
Powders/Granulates for Oral Solutions											
Strips										●	
Sachets						●				● ¹⁰	
Bottles				●		●					
Softgel Capsules											
Bottles		●	● ^{10/11/12}	●			●	●	●		
Blisters	● ⁸	●	● ¹¹	●	● ¹⁴		● ⁸	● ^{8/9}	●	●	●
Gummies											
Bottles		●									

Clinical Trial Supply

Sites	FKB	GRO	LAT	MRB	MST	RBG	SIS
CT Primary Packaging	●	●	●	●	●	●	●
CT Kitting/Packaging		●					
CT Blinding & Randomization		●					
CT Storage & Distribution		●					

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