

# AENOVA CAPABILITIES

As a leading global contract development and manufacturing organization, we offer extensive capabilities for Solids, Steriles, Semi-Solids, Liquids, and Packaging. Our 7 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
<b>Tablets</b>											
Immediate Release			●			● <sup>3</sup>	●	● <sup>1</sup>	● <sup>1</sup>	●	●
Controlled Release			●			● <sup>3</sup>	●	● <sup>1</sup>	● <sup>1</sup>	●	●
Film Coated			●			● <sup>3</sup>	●	● <sup>1</sup>	● <sup>1</sup>	●	●
Sugar Coated			●					● <sup>1</sup>	● <sup>1</sup>	●	●
Bilayer										●	
Chewables/Lozenges			●			●	●			●	●
Effervescent Tablets	●						●			●	
Orally Disintegrating Tablets			●				●	●	●	● <sup>7</sup>	●
<b>Hard Gel Capsules</b>											
Powders/Granulates				●		● <sup>3</sup>	●		● <sup>1</sup>	●	●
Micro-dosed capsules (from 1mg fill mass)								●			
Pellets (Designed Release)				●			●		● <sup>1</sup>		
Tablet in a Capsule							●				
Mini/Micro Tablets							●		● <sup>1</sup>		
Film Coated							●		● <sup>1</sup>	●	●
<b>Betalactams (Tablets, Capsules, Dry Powders)</b>											
						●					
<b>Dry Powder Inhalation</b>											
								● <sup>2</sup>			
<b>Powders/Granulates for Oral Solutions</b>											
Powders/Granulates	●		●			●				●	
Effervescent Powders/Granulates	●									●	
<b>Chewable Gels (Gummies)</b>											
		●									
<b>Soft Capsules</b>											
Soft Gelatine Capsules		●			● <sup>1</sup>						
VegaGels®		●									
<b>Bioavailability Enhancing Technologies</b>											
Hot Melt Extrusion									●	●	
Spray Drying				●							
Lipid Based Formulations		●				●					
<b>Controlled Substances</b>											
	●		●			●	●	●		●	●
<b>Occupational Exposure Limits (µg/m³)</b>											
OEB 1 (10,000 to 1,000)	●	●	●		●	●	●	●	●	●	●
OEB 2 (1,000 to 100)	●	●	●		●	●	●	●	●	●	●
OEB 3 (100 to 10)	●	●	● <sup>6</sup>	●	●	●	● <sup>6</sup>	●	●	●	● <sup>6</sup>
OEB 4 (10 to 1)					●	● <sup>6</sup>		●	●		
OEB 5 (1 to 0.01)					●			●	●		
<b>Animal Health<sup>4</sup></b>											
			●			● <sup>5</sup>		●	●		

## Solids & Softgels - Bulk

<sup>1</sup> Including Highly Potent APIs

<sup>2</sup> Only Highly Potent APIs

<sup>3</sup> Including anti-infectives (Betalactams)

<sup>4</sup> If API common to Human Health except otherwise indicated (see footnote AH)

<sup>5</sup> Dedicated plant for Animal Health products incl. Parasitizides

<sup>6</sup> Molecule dependent

<sup>7</sup> Includes Template Inverted Particles

## Steriles

<sup>8</sup> API must also be used for human application (exception intramammary syringes at LAT)

<sup>9</sup> Powder filling into vials for cephalosporins & 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
<b>Aseptic Processing</b>	
	●
<b>Terminal Sterilization</b>	
	●
<b>Small Molecule</b>	
	●
<b>Biologics (up to BSL 2)</b>	
	●
<b>Occupational Exposure Limits (µg/m³)</b>	
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)	
<b>Betalactams: Penicillin</b>	
Sterile Powder for Injection	●
Sterile Liquid Vials	●
Sterile Intramammary Syringes	●
<b>Betalactams: Cephalosporin</b>	
Sterile Powder for Injection	●
Sterile Intramammary Syringes	●
<b>Controlled Substances</b>	
	●
<b>Animal Health<sup>8</sup></b>	
	●
<b>Glass Vials - Liquid</b>	2R-50R
<b>Plastic Vials - Liquid</b>	2R-10R
<b>Glass Vials - Powder Filling</b>	5-250ml <sup>9</sup>
<b>Prefilled Syringes (glass &amp; plastic)</b>	0.5ml-10ml
<b>Glass Cartridges</b>	1-20 ml
<b>Intramammary Syringes - Animal Health</b>	5-12 ml

## Semi-Solids & Liquids - Bulk & Packaging

Sites	BAA	CAR	FKB	GRO	RBG
<b>Suppositories/Vaginal Ovules</b>					
Plastic (ie. PVC/PE)		●		●	
Foil (ie. Alu/PE)		●		●	
<b>Creams/Ointments/Gels</b>					
Bottles					
Pumps		●			●
Drops					
Jars		●			
Sachets	●				
Tubes		●	●		
<b>Liquids (Non Sterile)</b>					
Emulsions		● <sup>5</sup>	● <sup>1</sup>		●
Suspensions		●			●
Bottles		●			●
Nasal Sprays		● <sup>2</sup>			● <sup>2</sup>
Droppers		●			●
Pumps		●			●
Foams		● <sup>6</sup>	● <sup>6</sup>		
<b>Hormones</b>					
		● <sup>3</sup>	● <sup>3</sup>		●
<b>High Potent</b>					
			●		●
<b>Controlled Substances</b>					
			●	●	
<b>Occupational Exposure Limits (µg/m<sup>3</sup>)</b>					
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)		● <sup>7</sup>			
<b>Animal Health<sup>4</sup></b>					
		●	●		

## Semi-Solids & Liquids

- <sup>1</sup> Bulk only, no packaging (alcohol content up to 30%)
- <sup>2</sup> Not pressurized
- <sup>3</sup> Only corticosteroids
- <sup>4</sup> API must also be used for human application
- <sup>5</sup> Including flammables (ATEX area)
- <sup>6</sup> Bulk only (pressurization performed externally)
- <sup>7</sup> Molecule dependent

## Solids - Packaging

- <sup>8</sup> Multi-Tablet Blister
- <sup>9</sup> Pouching
- <sup>10</sup> Secondary packaging
- <sup>11</sup> Face seal blistering and RF sealing of clam shells
- <sup>12</sup> External Partner

## Solids & Softgels - Packaging

Sites	BAA	CAR	COR	FKB	GRB	GRO	KIR	LAT	MRB	MST	RBG	SIS	TIM
<b>Tablets</b>													
Bottles					● <sup>10/11</sup>	●			●	●	●		
Blisters	● <sup>8</sup>				● <sup>11</sup>	●		●	● <sup>8</sup>	● <sup>8/9</sup>	●	●	●
Strips	●							●				●	
Sachets												● <sup>10</sup>	
Tubes	●				● <sup>11</sup>				●			●	
<b>Hard Gel Capsules</b>													
Bottles					● <sup>10/11</sup>	●			●	●	●		
Blisters	● <sup>8</sup>				● <sup>11</sup>	●		●	● <sup>8</sup>	● <sup>8/9</sup>	●	●	●
<b>Dry Powder Inhalation (micro-dosed capsules)</b>													
Combination packaging (incl. device)										●			
<b>Powders/Granulates for Oral Solutions</b>													
Strips												●	
Sachets								●				● <sup>10</sup>	
Bottles						●		●					
<b>Softgel Capsules</b>													
Bottles			●		● <sup>10/11</sup>	●			●	●	●		
Blisters	● <sup>8</sup>		●		● <sup>11</sup>	●	●		● <sup>8</sup>	● <sup>8/9</sup>	●	●	●

## Clinical Trial Supply

Sites	BAA	CAR	COR	FKB	GRB	GRO	KIR	LAT	MRB	MST	RBG	SIS	TIM
<b>CT Primary Packaging</b>				●		●		●	●	●	●	●	
<b>CT Kitting / Packaging</b>						●							
<b>CT Blinding &amp; Randomization</b>						●							
<b>CT Storage &amp; Distribution</b>						●							

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