

Introducing DKSH: Biopharma Portfolio

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Delivering Growth – in Asia and Beyond.

DKSH Is a Successful Market Leader



No. 1

Market Expansion Services provider with a focus on Asia



2,200 clients

2,100 suppliers



22 million

transactions per year



11,3 billion

Net sales (2022)



>10 years

4 markets

average client relationship¹



870

business locations



32,600

specialists



More than

160 years in Asia

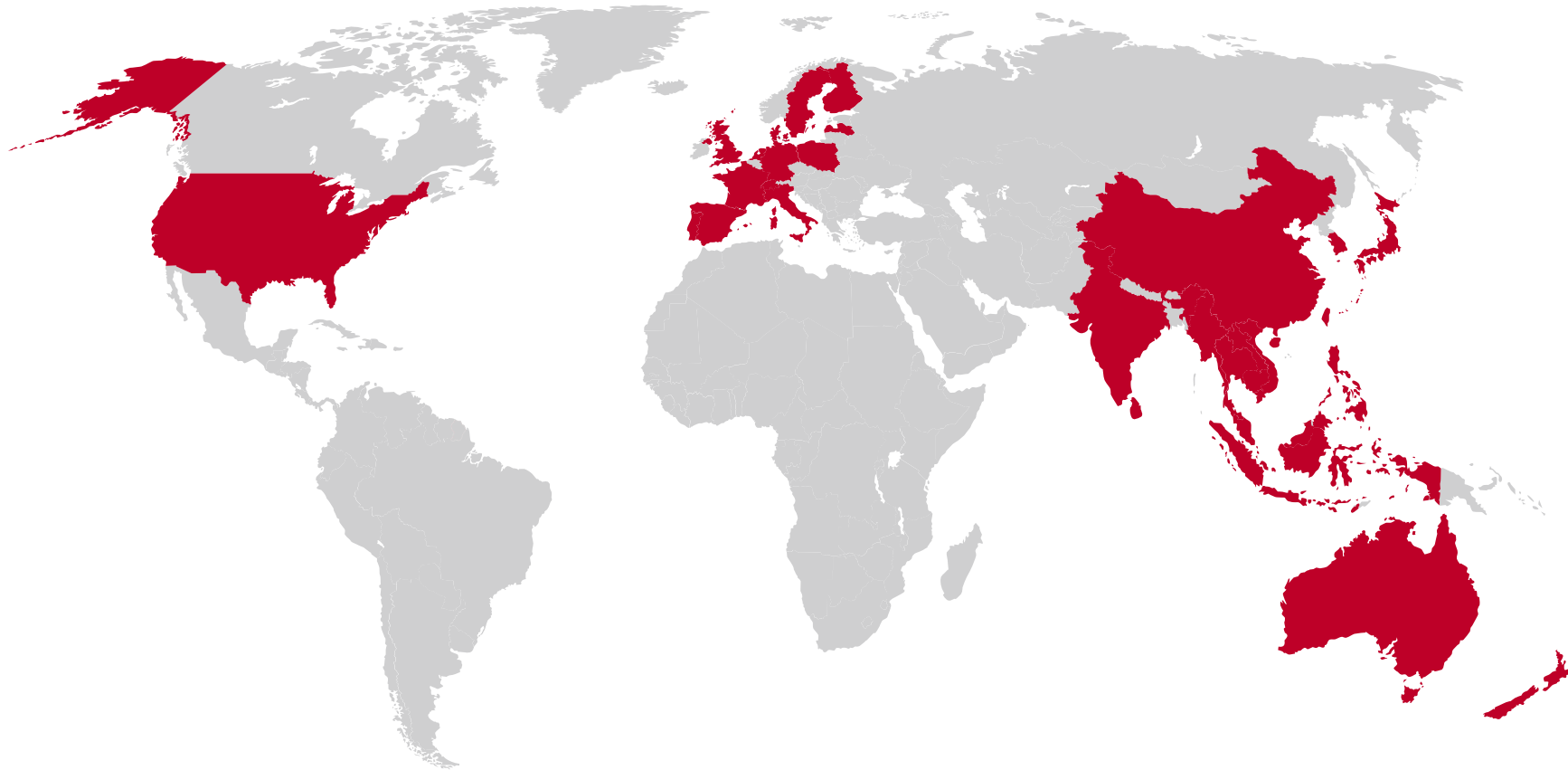


530,000

customers

¹ Top 200 clients by net sales

...And a Network of Unique Scope and Depth



Europe and the Americas

- | | |
|---------------|-------------|
| Denmark | Netherlands |
| Finland | Poland |
| France | Portugal |
| Germany | Spain |
| Great Britain | Sweden |
| Italy | Switzerland |
| Latvia | USA |

Asia Pacific

- | | |
|---------------------|-------------|
| Australia | Macau |
| Brunei ¹ | Malaysia |
| Cambodia | Myanmar |
| China | New Zealand |
| Guam | Philippines |
| Hong Kong | Saipan |
| India | Singapore |
| Indonesia | Sri Lanka |
| Japan | Taiwan |
| Korea | Thailand |
| Laos | Vietnam |



160

Distribution Centers



2 million

transactions per month

Our Industry Expertise

Four Highly Specialized Business Units



Consumer Goods

Specialists: 18,850



Healthcare

Specialists: 7,990



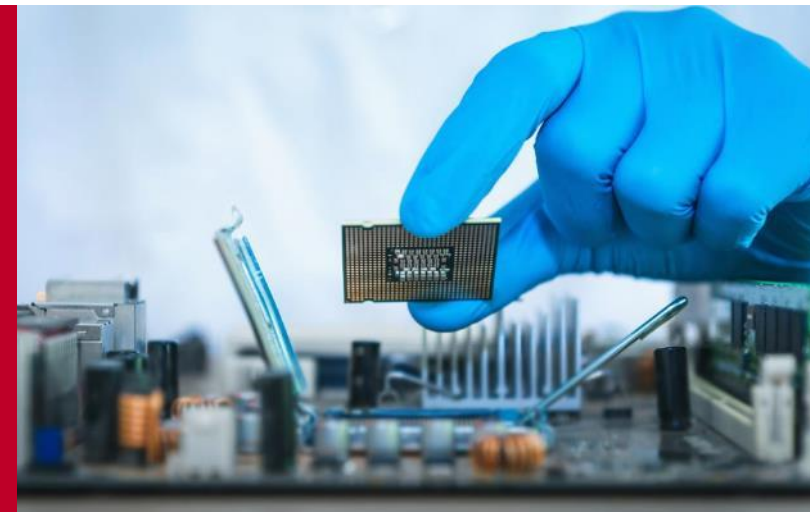
Performance Materials

Specialists: 1,650



Technology

Specialists: 1,690



...World-Class Performance Materials Offerings



DKSH **Performance Materials** is a leading global distributor of specialty chemicals and ingredients for the food and beverage, pharmaceutical, personal care, and specialty chemicals industries.

We provide a full range of market expansion services to support your business growth across Asia Pacific, Europe, and North America.



120

business locations



32

markets



48

innovation centers



20,000

customers



Performance Materials

Dedicated expertise in every Business Line



Food & Beverage Industry

- Beverage & Dairy
- Confectionery & Bakery
- Food Supplements & Nutrition
- Processed Food & Food Services



Personal Care Industry

- Cosmetics & Toiletries
- Household & Industrial Cleaning



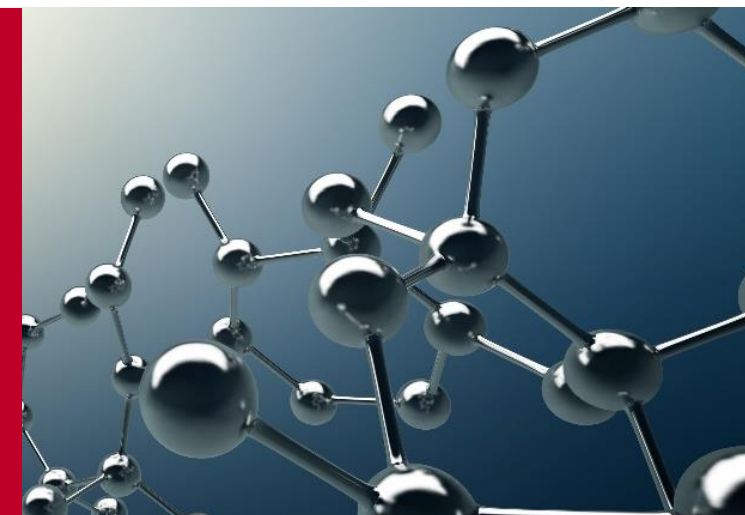
Pharmaceutical Industry

- Active Pharmaceutical Ingredients
- Biopharma
- Excipients
- Pharmaceutical Synthesis



Specialty Chemicals Industry

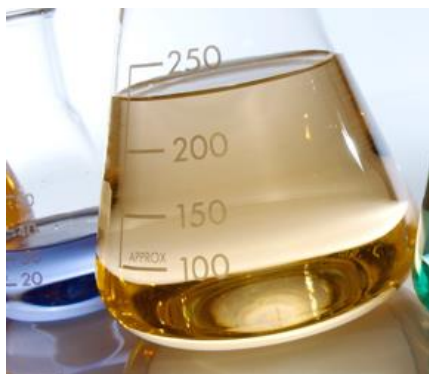
- Electronics & Specialties
- Paints & Coatings
- Polymers



Pharmaceutical: Industry Clusters



Pharmaceutical Synthesis



- Catalysts
- Coupling agent
- Intermediates
- Protecting agent
- Solvents
- Tailor-made intermediate

API's



- Generic and Conventional Drugs
- Hyaluronic acid
- Magnesium Hydroxide
- Corticosteroids
- Glucosamine
- Tenoxicam
- Others

Excipients



- Binders and Fillers
- Controlling agents
- Emulsifiers
- Coating
- Solubilizers
- Antioxidants
- Others

Biopharma



- Acids & Solvents
- Amino acids & peptides
- Biological Buffers
- Carbohydrates/Sugars
- Hormones & lipids
- Minerals & Nutrients
- Peptones & Yeast Extracts

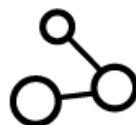
Biopharmaceutical Ingredient Offerings



DKSH offers a range of products for the use at every stage of the biopharmaceutical production process, from **upstream**, to **downstream** and **formulation**.



Acids, Denaturants,
and Solvents



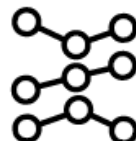
Amino Acids



Biological
Buffers



Carbohydrates and
Sugar



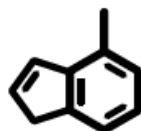
Cytokines and
Growth Factors



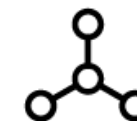
Hormones and
Lipids



Inorganic Salts



Nucleosides and
Derivatives



Organic Salts



Protein Hydrolysates
and Yeast Extract



Proteolysis-Targeting
Chimera (PROTAC)

Biopharmaceutical Ingredient Offerings



Acids, Denaturants, and Solvents

BioIngredient Name	CAS No.	Grade	cGMP
1,2-Propanediol	57-55-6	Multi-Compendial	Yes
4-Aminobenzoic Acid	150-13-0	Biopharma grade	Yes
Acetic Acid 33%-80%	64-19-7	Multi-Compendial	Yes
Acetic Acid Glacial	64-19-7	Multi-Compendial	Yes
Acetone	67-64-1	Multi-Compendial	Yes
Acetylsalicylic Acid	50-78-2	Multi-Compendial	Yes
Adipic Acid	124-04-9	Multi-Compendial	Yes
Ammonium hydroxide solution	1336-21-6	Multi-Compendial	Yes
Benzalkonium Chloride Solution	8001-54-5	Multi-Compendial	Yes
Benzoic Acid	65-85-0	Multi-Compendial	Yes
Benzyl Alcohol	100-51-6	Multi-Compendial	Yes
Boric Acid	10043-35-3	Multi-Compendial	Yes
Cetyl Trimethyl Ammonium Bromide (CTAB)	57-09-0	USP grade	Yes
Citric Acid	77-92-9	Multi-Compendial	Yes
Citric Acid Monohydrate	5949-29-1	Multi-Compendial	Yes
Cyclohexane	110-82-7	Multi-Compendial	Yes
Deionized Water	7732-18-5	Multi-Compendial	Yes
Dimethyl Sulfoxide (DMSO)	67-68-5	Multi-Compendial	Yes
Dithioerythritol (DTE)	6892-68-8	Biopharma grade	No

BioIngredient Name	CAS No.	Grade	cGMP
Dithiothreitol (DTT)	3483-12-3	Biopharma grade	No
EDTA	60-00-4	Multi-Compendial	Yes
Ethyl Alcohol	64-17-5	Multi-Compendial	Yes
Ethylene Glycol	107-21-1	Multi-Compendial	Yes
Formaldehyde 35-40% W/W	50-00-0	Multi-Compendial	Yes
Formic Acid 85%-99% W/W	64-18-6	Multi-Compendial	Yes
Fumaric Acid	110-17-8	Multi-Compendial	Yes
Glutaraldehyde Solution 25% W/W	111-30-8	Multi-Compendial	Yes
Guanidine Hydrochloride	50-01-1	Multi-Compendial	Yes
Guanidine Thiocyanate	593-84-0	Multi-Compendial	Yes
HEPES	7365-45-9	Biopharma grade	No
Hydrochloric Acid 10%-48% W/W	7647-01-0	Multi-Compendial	Yes
Hydrogen Peroxide 30% W/W	7722-84-1	Multi-Compendial	Yes
IPTG	367-93-1	Biopharma grade	No
Isopropyl Alcohol	67-63-0	Multi-Compendial	Yes
Iso-Propyl Alcohol	67-63-0	Multi-Compendial	Yes
L(+)-Ascorbic Acid	50-81-7	Multi-Compendial	Yes
L(+)-Lactic Acid	79-33-4	Multi-Compendial	Yes
L(+)-Tartaric Acid	87-69-4	Multi-Compendial	Yes

Biopharmaceutical Ingredient Offerings



Acids, Denaturants, and Solvents (Continuation)

BioIngredient Name	CAS No.	Grade	cGMP
Maleic Acid	110-16-7	Multi-Compendial	Yes
MES Monohydrate	145224-94-8	Multi-Compendial	Yes / No
Methanol	67-56-1	Multi-Compendial	Yes
Mono-Chloroacetic Acid	79-11-8	Multi-Compendial	Yes
Nitric Acid 60%-65% W/W	7697-37-2	Multi-Compendial	Yes
Orto-Phosphoric Acid 11%-85% W/W	7664-38-2	Multi-Compendial	Yes
Oxalic Acid 2-Hydrate	6153-56-6	Multi-Compendial	Yes
P-Aminobenzoic Acid (PABA)	150-13-0	Biopharma grade	No
Phenylmethylsulphonyl Fluoride (PMSF)	329-98-6	Biopharma grade	No
Phosphoric Acid	7664-38-2	Multi-Compendial	Yes
PIPES	5625-37-6	Multi-Compendial	Yes
Polysorbate 20	9005-64-5	Multi-Compendial	Yes
Polysorbate 80	9005-65-6	Multi-Compendial	Yes
Propylene Glycol	57-55-6	Multi-Compendial	Yes
P-Toluenesulfonic Acid	6192-52-5	Multi-Compendial	Yes
Pyruvic Acid Sodium Salt	113-24-6	Multi-Compendial	Yes
Salicylic Acid	69-72-7	Multi-Compendial	Yes
Stearic Acid	57-11-4	Multi-Compendial	Yes

BioIngredient Name	CAS No.	Grade	cGMP
Succinic Acid	110-15-6	Multi-Compendial	Yes
Sulphamic Acid	5329-14-6	Multi-Compendial	Yes
Sulphuric Acid 96% W/W	7664-93-9	Multi-Compendial	Yes
Toluene	108-88-3	Multi-Compendial	Yes
Trichloroacetic Acid	76-03-9	Multi-Compendial	Yes
Tricine	5704-04-1	Biopharma grade	No
Urea	57-13-6	Multi-Compendial	Yes
Oxalic Acid 2-Hydrate	6153-56-6	Multi-Compendial	Yes
P-Aminobenzoic Acid (PABA)	150-13-0	Biopharma grade	No
Phenylmethylsulphonyl Fluoride (PMSF)	329-98-6	Biopharma grade	No
Succinic Acid	110-15-6	Multi-Compendial	Yes
Sulphamic Acid	5329-14-6	Multi-Compendial	Yes
Sulphuric Acid 96% W/W	7664-93-9	Multi-Compendial	Yes
Toluene	108-88-3	Multi-Compendial	Yes
Trichloroacetic Acid	76-03-9	Multi-Compendial	Yes
Tricine	5704-04-1	Biopharma grade	No
Urea	57-13-6	Multi-Compendial	Yes
Oxalic Acid 2-Hydrate	6153-56-6	Multi-Compendial	Yes

Biopharmaceutical Ingredient Offerings



Amino Acids

BioIngredient Name	CAS No.	Grade	cGMP
Acetyl-L-Glutamic Acid	1188-37-0	Biopharma grade	No
Alanyl-Glutamine	39537-23-0	Biopharma grade	No
Aspartic Acid Sodium Salt Monohydrate	323194-76-9	Biopharma grade	No
D-Alanine	338-69-2	Biopharma grade	No
D-Aspartic Acid	1783-96-6	Biopharma grade	No
D-Glucuronic Acid Sodium Monohydrate	207300-70-7	Biopharma grade	No
D-Glutamic Acid	6893-26-1	Biopharma grade	No
D-Glutamine	5959-95-5	Biopharma grade	No
D-Histidine	351-50-8	Biopharma grade	No
D-Leucine	328-38-1	Biopharma grade	No
DL-Glutamic Acid	617-65-2	Biopharma grade	No
DL-Glutamic Acid Monohydrate	19258-83-7	Biopharma grade	No
DL-Glutamine	585-21-7	Biopharma grade	No
DL-Leucine	328-39-2	Biopharma grade	No
DL-Malic Acid	617-48-1	Biopharma grade	No
DL-Pyroglutamic Acid	149-87-1	Biopharma grade	No
DL-Serine	302-84-1	Biopharma grade	No
DL-Tyrosine	556-03-6	Biopharma grade	No
DL-Valine	516-06-3	Biopharma grade	No

BioIngredient Name	CAS No.	Grade	cGMP
D-Phenylalanine	673-06-3	Biopharma grade	No
D-Proline	344-25-2	Biopharma grade	No
D-Pyroglutamic Acid	4042-36-8	Biopharma grade	No
D-Serine	312-84-5	Biopharma grade	No
D-Tryptophan	153-94-6126	Biopharma grade	No
Glycine	56-40-6	Multi-Compendial	Yes
Glycylglycine	556-50-3	Biopharma grade	No
Glycyl-L-tyrosine	658-79-7	Biopharma grade	No
Glycyl-L-Tyrosine Dihydrate	39630-46-1	Biopharma grade	No
L(-)-Thiazolidine-4-carboxylic Acid	34592-47-7	Biopharma grade	No
L(+)-Arginine	74-79-3	Biopharma grade	No
L(+)-Citrulline	372-75-8	Biopharma grade	No
L-2-Aminobutyric Acid	1492-24-6	Multi-Compendial	Yes
L-Alanine	56-41-7	Multi-Compendial	Yes
L-Alanyl-L-Cystine	115888-13-6	Biopharma grade	No
L-Alanyl-L-Glutamine	39537-23-0	Multi-Compendial	Yes
L-Alanyl-L-Tyrosine	3061-88-9	Biopharma grade	No
L-Arginine	74-79-3	Multi-Compendial	Yes
L-Arginine HCl	1119-34-2	Multi-Compendial	Yes

Biopharmaceutical Ingredient Offerings



Amino Acids (Continuation)

BioIngredient Name	CAS No.	Grade	cGMP
L-Asparagine	5794-13-8	Multi-Compendial	Yes
L-Aspartic Acid	56-84-8	Multi-Compendial	Yes
L-Carnitine	541-15-1	Biopharma grade	No
L-Cysteine	52-90-4	Multi-Compendial	Yes
L-Cysteine HCl Anhydrous	52-89-1	Multi-Compendial	Yes
L-Cysteine HCl Monohydrate	7048-04-6	Multi-Compendial	Yes
L-Cystine	56-89-3	Multi-Compendial	Yes
L-Cystine Dihydrochloride	30925-07-6	Multi-Compendial	Yes
L-Cystine Disodium Salt hydrate	199329-53-8	Biopharma grade	No
L-Cystine S-sulfate sodium salt sesquihydrate	150465-29-5	Biopharma grade	No
L-Glutamic Acid	56-86-0	Multi-Compendial	Yes
L-Glutamic Acid HCl	138-15-8	Biopharma grade	No
L-Glutamic Acid Monopotassium Salt Monohydrate	6382-01-0	Multi-Compendial	Yes
L-Glutamic Acid Monosodium Salt (Anhydrous)	142-47-2	Multi-Compendial	Yes
L-Glutamine	56-85-9	Multi-Compendial	Yes
L-Glutathione	70-18-8	Multi-Compendial	Yes
L-Histidine	71-00-1	Multi-Compendial	Yes
L-Histidine HCl	645-35-2	Multi-Compendial	Yes

BioIngredient Name	CAS No.	Grade	cGMP
L-Isoleucine	73-32-5	Multi-Compendial	Yes
L-Leucine	61-90-5	Multi-Compendial	Yes
L-Lysine	56-87-1	Multi-Compendial	Yes
L-Lysine HCl	657-27-2	Multi-Compendial	Yes
L-Malic Acid	97-67-6	Multi-Compendial	Yes
L-Methionine	63-68-3	Multi-Compendial	Yes
L-Ornithine	70-26-8	Multi-Compendial	Yes
L-Phenylalanine	63-91-2	Multi-Compendial	Yes
L-Prolinamide	7531-52-4	Biopharma grade	No
L-Proline	147-85-3	Multi-Compendial	Yes
L-Pyroglutamic Acid	98-79-3	Biopharma grade	No
L-Serine	56-45-1	Multi-Compendial	Yes
L-Taurine	107-35-7	Multi-Compendial	Yes
L-Theanine	3081-61-6	Biopharma grade	No
L-Threonine	72-19-5	Biopharma grade	No
L-Tryptophan	73-22-3	Multi-Compendial	Yes
L-Tyrosine	60-18-4	Multi-Compendial	Yes
L-Valine	72-18-4	Multi-Compendial	Yes

Biopharmaceutical Ingredient Offerings



Biological Buffers

BiIngredient Name	CAS No.	Grade	cGMP
BIS-TRIS	6976-37-0	Multi-Compendial	Yes
HEPES	7365-45-9	Multi-Compendial	Yes
HEPES, Sodium Salt	75277-39-3	Biopharma grade	No
MES Monohydrate	145224-94-8	Multi-Compendial	Yes
MES, Sodium Salt	71119-23-8	Biopharma grade	No
MOPS	1132-61-2	Multi-Compendial	Yes
TRIS	77-86-1	Multi-Compendial	Yes
TRIS HCl	1185-53-1	Multi-Compendial	Yes

Biopharmaceutical Ingredient Offerings



Carbohydrates and Sugar

BioIngredient Name	CAS No.	Grade	cGMP
2-Deoxy-D-ribose	533-67-5	Biopharma grade	No
2-Hydroxypropyl-Beta-cyclodextrin	128446-35-5	Multi-Compendial	Yes
Beta-cyclodextrin	7585-39-9	Multi-Compendial	Yes
DEAE-Dextran	9015-73-0	Multi-Compendial	Yes
Dextran Powders	9004-54-0	Multi-Compendial	Yes
Dextran Sulphate Sodium Salt	9011-18-1	Multi-Compendial	Yes
Dextrin	9004-53-9	Multi-Compendial	Yes
Dextrose	77938-63-7	Multi-Compendial	Yes
Dextrose Monohydrate	01-10-96	Multi-Compendial	Yes
D-Galactose	59-23-4	Multi-Compendial	Yes
D-Galactose, Milk Derived	59-23-4	Multi-Compendial	Yes
D-Galactose, Plant Derived	59-23-4	Multi-Compendial	Yes
D-Glucose 1-Hydrate	5996-10-1	Multi-Compendial	Yes
D-Glucose, Anhydrous	50-99-7	Multi-Compendial	Yes
D-Maltose	6363-53-7	Multi-Compendial	Yes
D-Mannose	3458-28-4	Multi-Compendial	Yes
Esculin hydrate	531-75-9	Biopharma grade	No
Glycerol	56-81-5	Multi-Compendial	Yes
Hydroquinone	123-31-9	Multi-Compendial	Yes

BioIngredient Name	CAS No.	Grade	cGMP
Iron Dextran	9004-66-4	Multi-Compendial	Yes
Lactose Hydrate	10039-26-6	Multi-Compendial	Yes
L-Fucose	N/A	Biopharma grade	No
Lysine-dextran	N/A	Multi-Compendial	Yes
Maltitol	585-88-6	Multi-Compendial	Yes
Maltodextrin	9050-36-6	Multi-Compendial	Yes
Maltose Monohydrate	6363-53-7	Multi-Compendial	Yes
Mannitol	69-65-8	Multi-Compendial	Yes
Monothioglycerol	96-27-5	Biopharma grade	No
Polysucrose	26873-85-8	Multi-Compendial	Yes
Q-Dextran	N/A	Multi-Compendial	Yes
Sodium Gluconate	527-07-1	Biopharma grade	No
Sorbitol	50-70-4	Multi-Compendial	Yes
Squalane	111-01-3	EP grade	no
Squalene	111-02-4	EP grade	no
Succinic Acid	110-15-6	Biopharma grade	No
Sucrose	57-50-1	Multi-Compendial	Yes
Sucrose, Beet Derived	57-50-1	Multi-Compendial	Yes
Trehalose	99-20-7	Multi-Compendial	Yes

Biopharmaceutical Ingredient Offerings



Hormones and Lipids

BioIngredient Name	CAS No.	Grade	cGMP
1,2-Dioleoyloxy-3-dimethylaminopropane	Several	Multi-Compendial	Yes
1,2-Dioleoyloxy-3-trimethylammonium	Several	Multi-Compendial	Yes
1,2-Dioleyloxy-3-dimethylaminopropane	Several	Multi-Compendial	Yes
1,2-Dioleyloxy-3-trimethylammonium	Several	Multi-Compendial	Yes
Activated PEG diacylglycerols	Several	Multi-Compendial	Yes
Activated PEG phospholipids	Several	Multi-Compendial	Yes
Activated phospholipids	Several	Multi-Compendial	Yes
Cholesterol	57-88-5	Biopharma grade	No
Coco-Caprylate/Caprates	95912-86-0	Multi-Compendial	Yes
Coconut Oil	8001-31-8	Multi-Compendial	Yes
Fumaric Acid	110-17-8	Biopharma grade	No
Glyceryl Caprylate/Caprates	91744-32-0	Multi-Compendial	Yes
Glyceryl Dibehenate	99880-64-5	Multi-Compendial	Yes
Glyceryl Monocaprylate	26402-26-6	Multi-Compendial	Yes
Glyceryl Monocaprylate	26402-26-6	Multi-Compendial	Yes
Glyceryl Monooleate	25496-72-4	Multi-Compendial	Yes
Glyceryl Tricaprylate, Tricaprylin	538-23-8	Multi-Compendial	Yes
Glyceryl Tricaprylate/Tricaprate	65381-09-1	Multi-Compendial	Yes
Hydrogenated Cottonseed Oil	68334-00-9	Multi-Compendial	Yes

BioIngredient Name	CAS No.	Grade	cGMP
Hydrogenated Palm Kernel Oil	68334-28-1	Multi-Compendial	Yes
Hydrogenated Soybean Oil	8016-70-4	Multi-Compendial	Yes
Linoleic Acid	60-33-3	Biopharma grade	No
Linoleoyl Polyoxylglycerides	61789-25-1	Multi-Compendial	Yes
Lyso-Phosphatidylcholine	Several	Multi-Compendial	Yes
Palmitic Acid, Sodium Salt	408-35-5	Biopharma grade	No
PEG diacylglycerols	Several	Multi-Compendial	Yes
PEG-32 Hydrogenated Palm Glycerides	121548-05-8	Multi-Compendial	Yes
PEG-32 Lauric Glycerides	67701-26-2	Multi-Compendial	Yes
PEG-6 Oleic Glycerides	69071-70-0	Multi-Compendial	Yes
PEG-8 Caprylic/Capric Glycerides	91744-32-0	Multi-Compendial	Yes
PEG-phospholipids	Several	Multi-Compendial	Yes
Phosphatidic acid	Several	Multi-Compendial	Yes
Phosphatidylcholine	Several	Multi-Compendial	Yes
Phosphatidylethanolamine	Several	Multi-Compendial	Yes
Phosphatidylglycerol	Several	Multi-Compendial	Yes
Phosphatidylserine	Several	Multi-Compendial	Yes
Polyglycerol Oleate	9007-48-1	Multi-Compendial	Yes
Propylene Glycol Dicaprylocaprate	68583-51-7	Multi-Compendial	Yes

Biopharmaceutical Ingredient Offerings



Inorganic Salts

BioIngredient Name	CAS No.	Grade	cGMP
Ammonium Chloride	12125-02-9	Multi-Compendial	Yes
Ammonium Sulphate	7783-20-2	Multi-Compendial	Yes
Calcium Carbonate	471-34-1	Multi-Compendial	Yes
Calcium Chloride Anhydrous	10043-52-4	Multi-Compendial	Yes
Calcium Chloride Dihydrate	10035-04-8	Multi-Compendial	Yes
Calcium Dihydrogen Phosphate Monohydrate	10031-30-8	Multi-Compendial	Yes
Calcium Hydrogen Phosphate Anhydrous	7757-93-9	Multi-Compendial	Yes
Calcium Hydrogen Phosphate Dihydrate	7789-77-7	Multi-Compendial	Yes
Calcium Hydroxide	1305-62-0	Multi-Compendial	Yes
Choline Chloride	67-48-1	Biopharma grade	No
Di-Potassium Hydrogen Phosphate	7758-11-4	Multi-Compendial	Yes
Di-Sodium Hydrogen Phosphate Anhydrous	7558-79-4	Multi-Compendial	Yes
Di-Sodium Hydrogen Phosphate Dihydrate	10028-24-7	Multi-Compendial	Yes
L-Ascorbate-2-Phosphate	23313-12-4	Multi-Compendial	Yes
Magnesium Bromide Hexahydrate	13446-53-2	Multi-Compendial	Yes
Magnesium Chloride Hexahydrate	7791-18-6	Multi-Compendial	Yes
Magnesium Hydroxide Carbonate	39409-82-0	Multi-Compendial	Yes
Magnesium Nitrate Hexahydrate	13446-18-9	Multi-Compendial	Yes
Magnesium Oxide	1309-48-4	Multi-Compendial	Yes

BioIngredient Name	CAS No.	Grade	cGMP
Magnesium silicate monohydrate (Talc)	14807-96-6	Multi-Compendial	Yes
Magnesium Sulphate Anhydrous	7487-88-9	Multi-Compendial	Yes
Magnesium Sulphate Heptahydrate	10034-99-8	Multi-Compendial	Yes
Manganese (II) Chloride Tetrahydrate	13446-34-9	Multi-Compendial	Yes
Manganese (II) Sulphate Monohydrate	10034-96-5	Multi-Compendial	Yes
Manganese Carbonate Precipitated	598-62-9	Multi-Compendial	Yes
Potassium Bromide	7758-02-3	Multi-Compendial	Yes
Potassium Carbonate Anhydrous, Granulated	584-08-7	Multi-Compendial	Yes
Potassium Chlorate	3811-04-9	Multi-Compendial	Yes
Potassium Chloride	7447-40-7	Multi-Compendial	Yes
Potassium Dihydrogen Phosphate	7778-77-0	Multi-Compendial	Yes
Potassium Fluoride Dihydrate	13455-21-5	Multi-Compendial	Yes
Potassium Hydrogen Carbonate	298-14-6	Multi-Compendial	Yes
Potassium Hydrogen Sulphate	7646-93-7	Multi-Compendial	Yes
Potassium Hydroxide	1310-58-3	Multi-Compendial	Yes
Potassium Iodate	7758-05-6	Multi-Compendial	Yes
Potassium Iodide	7681-11-0	Multi-Compendial	Yes
Potassium Nitrate	7757-79-1	Multi-Compendial	Yes
Potassium Permanganate	7722-64-7	Multi-Compendial	Yes

Biopharmaceutical Ingredient Offerings



Inorganic Salts (Continuation)

BioIngredient Name	CAS No.	Grade	cGMP
Potassium Phosphate Dibasic	7758-11-4	Multi-Compendial	Yes
Potassium Phosphate Monobasic	7778-77-0	Multi-Compendial	Yes
Potassium Sulphate	7778-80-5	Multi-Compendial	Yes
Pyrophosphoryl Tetrachloride	13498-14-1	Multi-Compendial	Yes
Sodium Azide	26628-22-8	Multi-Compendial	Yes
Sodium Bromide	7647-15-6	Multi-Compendial	Yes
Sodium Carbonate Anhydrous	497-19-8	Multi-Compendial	Yes
Sodium Carbonate Decahydrate	6132-02-1	Multi-Compendial	Yes
Sodium Carbonate Monohydrate	5968-11-6	Multi-Compendial	Yes
Sodium Chlorate	7775-09-9	Multi-Compendial	Yes
Sodium Chloride	7647-14-5	Multi-Compendial	Yes
Sodium Chloride	7647-14-5	Multi-Compendial	Yes
Sodium Chlorite	7758-19-2	Multi-Compendial	Yes
Sodium Dihydrogen Phosphate Anhydrous	7558-80-7	Multi-Compendial	Yes
Sodium Dihydrogen Phosphate Dihydrate	13472-35-0	Multi-Compendial	Yes
Sodium Dihydrogen Phosphate Monohydrate	10049-21-5	Multi-Compendial	Yes
Sodium Disulphite	7681-57-4	Multi-Compendial	Yes
Sodium Dithionite	7775-14-6	Multi-Compendial	Yes
Sodium Fluoride	7681-49-4	Multi-Compendial	Yes

BioIngredient Name	CAS No.	Grade	cGMP
Sodium Hydrogen Carbonate	144-55-8	Multi-Compendial	Yes
Sodium Hydrogen Sulphate Anhydrous	7681-38-1	Multi-Compendial	Yes
Sodium Hydroxide	1310-73-2	Multi-Compendial	Yes
Sodium Hydroxide 0.1M-10M	1310-73-2	Multi-Compendial	Yes
Sodium Hydroxide Sol.25%-50% W/W	1310-73-2	Multi-Compendial	Yes
Sodium Hydroxide, Beads	1310-73-2	Multi-Compendial	Yes
Sodium Hydroxide, Pellets	1310-73-2	Multi-Compendial	Yes
Sodium Molybdate Anhydrous	7631-95-0	Multi-Compendial	Yes
Sodium Molybdate Dihydrate	10102-40-6	Multi-Compendial	Yes
Sodium Nitrate	7631-99-4	Multi-Compendial	Yes
Sodium Nitrite	7632-00-0	Multi-Compendial	Yes
Sodium Phosphate Dibasic Anhydrous	7558-79-4	Multi-Compendial	Yes
Sodium Phosphate Dibasic Dihydrate	10028-24-7	Multi-Compendial	Yes
Sodium Phosphate Dibasic Heptahydrate	7782-85-6	Multi-Compendial	Yes
Sodium Phosphate Monobasic Anhydrous	7558-80-7	Multi-Compendial	Yes
Sodium Phosphate, Monobasic Monohydrate	10049-21-5	Multi-Compendial	Yes
Sodium Selenite	10102-18-8	Multi-Compendial	Yes
Sodium Sulfate Anhydrous	7757-82-6	Multi-Compendial	Yes
Sodium Sulphate Decahydrate	7727-73-3	Multi-Compendial	Yes

Biopharmaceutical Ingredient Offerings



Inorganic Salts (Continuation)

BiIngredient Name	CAS No.	Grade	cGMP
Sodium Sulphite Anhydrous	7757-83-7	Multi-Compendial	Yes
Strontium Chloride Hexahydrate	10025-70-4	Multi-Compendial	Yes
Tri-Calcium Phosphate	12167-74-7	Multi-Compendial	Yes
Tri-Potassium Phosphate Trihydrate	22763-03-7	Multi-Compendial	Yes
Tri-Sodium Phosphate Anhydrous	7601-54-9	Multi-Compendial	Yes
Tri-Sodium Phosphate Monohydrate	27176-08-5	Multi-Compendial	Yes
Zinc Chloride Anhydrous	7646-85-7	Multi-Compendial	Yes
Zinc Oxide	1314-13-2	Multi-Compendial	Yes
Zinc Sulphate Heptahydrate	7446-20-0	Multi-Compendial	Yes
Zinc Sulphate Hexahydrate	13986-24-8	Multi-Compendial	Yes
Zinc Sulphate Monohydrate	7446-19-7	Multi-Compendial	Yes

Biopharmaceutical Ingredient Offerings



Nucleosides and Derivatives

BiIngredient Name	CAS No.	Grade	cGMP
Adenine Hydrochloride	2922-28-3	Biopharma grade	No
Adenosine 5'-Monophosphate, Disodium Salt	4578-31-8	Biopharma grade	No
Cytidine	65-46-3	Biopharma grade	No
FAD Disodium Salt monohydrate	84366-81-4	Biopharma grade	No
Guanosine	118-00-3	Multi-Compendial	Yes
Uridine	58-96-8	Multi-Compendial	Yes

Biopharmaceutical Ingredient Offerings



Organic Salts

BioIngredient Name	CAS No.	Grade	cGMP
Aluminium Stearate	300-92-5	Multi-Compendial	Yes
Ammonium Acetate	631-61-8	Multi-Compendial	Yes
Ammonium Formate	540-69-2	Multi-Compendial	Yes
Barium Acetate	543-80-6	Multi-Compendial	Yes
Calcium Acetate Anhydrous	62-54-4	Multi-Compendial	Yes
Calcium Ascorbate	5743-27-1	Multi-Compendial	Yes
Di-Sodium Tartrate Dihydrate	6106-24-7	Multi-Compendial	Yes
Magnesium Acetate Tetrahydrate	16674-78-5	Multi-Compendial	Yes
Magnesium L-Lactate Dihydrate	18917-93-6	Multi-Compendial	Yes
Methyl Ethyl Ketone	78-93-3	Multi-Compendial	Yes
N,N-Dimethylacetamide	127-19-5	Multi-Compendial	Yes
N,N-Dimethylformamide	68-12-2	Multi-Compendial	Yes
Phenol	108-95-2	Multi-Compendial	Yes
Potassium Acetate	127-08-2	Multi-Compendial	Yes
Potassium Hydrogen Tartrate	868-14-4	Multi-Compendial	Yes
Sodium Acetate Trihydrate	6131-90-4	Multi-Compendial	Yes
Sodium Acetate Trihydrate	6131-90-4	Multi-Compendial	Yes
Sodium Acetate, Anhydrous	127-09-3	Multi-Compendial	Yes
Sodium Ascorbate	134-03-2	Multi-Compendial	Yes

BioIngredient Name	CAS No.	Grade	cGMP
Sodium Benzoate	532-32-1	Multi-Compendial	Yes
Tri-Potassium Citrate Monohydrate	6100-05-6	Multi-Compendial	Yes
Tri-Sodium Citrate Anhydrous	68-04-2	Multi-Compendial	Yes
Tri-Sodium Citrate Dihydrate	6132-04-3	Multi-Compendial	Yes
Zinc Acetate Dihydrate	5970-45-6	Multi-Compendial	Yes
Zinc Stearate	557-05-1	Multi-Compendial	Yes

Biopharmaceutical Ingredient Offerings



Peptides and Growth Factors

BiIngredient Name	CAS No.	Grade	cGMP
Calcitonin	Several	Multi-Compendial	Yes
Desmopressin	Several	Multi-Compendial	Yes
Leuprolide	Several	Multi-Compendial	Yes
Liraglutide	Several	Multi-Compendial	Yes
Myo-Inositol	87-89-8	Multi-Compendial	Yes
Semaglutide	Several	Multi-Compendial	Yes
Short™ 2122 AE-IGF-1	N/A	Multi-Compendial	Yes
Tirzepatide	Several	Multi-Compendial	Yes
Vasopressin	Several	Multi-Compendial	Yes

Biopharmaceutical Ingredient Offerings



Protein Hydrolysates and Yeast Extract

BiIngredient Name	CAS No.	Grade	cGMP
Casein Meat Peptone	100085-61-8	Biopharma grade	No
Casein Peptone	91079-40-2	Biopharma grade	No
Corn Steep	66071-94-1	Biopharma grade	No
Gelatin Peptone	100085-61-8	Biopharma grade	No
Guar Peptone	100209-45-8	Biopharma grade	No
Meat Peptone	100085-61-8	Biopharma grade	No
Pea Peptone	100209-45-8	Biopharma grade	No
Potato Peptone	100209-45-8	Biopharma grade	No
Rice Peptone	100209-45-8	Biopharma grade	No
Soy Peptone	100209-45-8	Biopharma grade	No
Tryptone	91079-40-2	Biopharma grade	No
Wheat Peptone	100209-45-8	Biopharma grade	No
Whey Peptone	73049-73-7	Biopharma grade	No
Yeast Extract	8013-01-2	Biopharma grade	No
Yeast Peptone	73049-73-7	Biopharma grade	No
Hy-Soy Refined F Grade	91079-46-8	Biopharma grade	No
Red Rice Yeast	75330-75-5	Biopharma grade	No
Soy Hydrolysate	91079-46-8	Biopharma grade	No

Biopharmaceutical Ingredient Offerings



Proteolysis-Targeting Chimera (PROTAC)

BiIngredient Name	CAS No.	Grade	cGMP
E3 CRBN Ligand----Lenalidomide Analogs	Several	Biopharma grade	No
E3 CRBN Ligand----Thalidomide Analogs	Several	Biopharma grade	No
E3 Other Related Ligand	Several	Biopharma grade	No
E3 VHL Ligand	Several	Biopharma grade	No
Linker	Several	Biopharma grade	No
Others	Several	Biopharma grade	No
Payload	Several	Biopharma grade	No
Target protein ligand	Several	Biopharma grade	No

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QUALITY - More than 160 years of experience and +30 years track record of servicing Pharmaceutical markets. Local regulatory affairs teams, supplier qualification and certifications, quality audits and claim management provided

SUPPLY CHAIN and RISK MITIGATION - Access to extensive range of products for Biomanufacturing via DKSH's worldwide sourcing network and partners

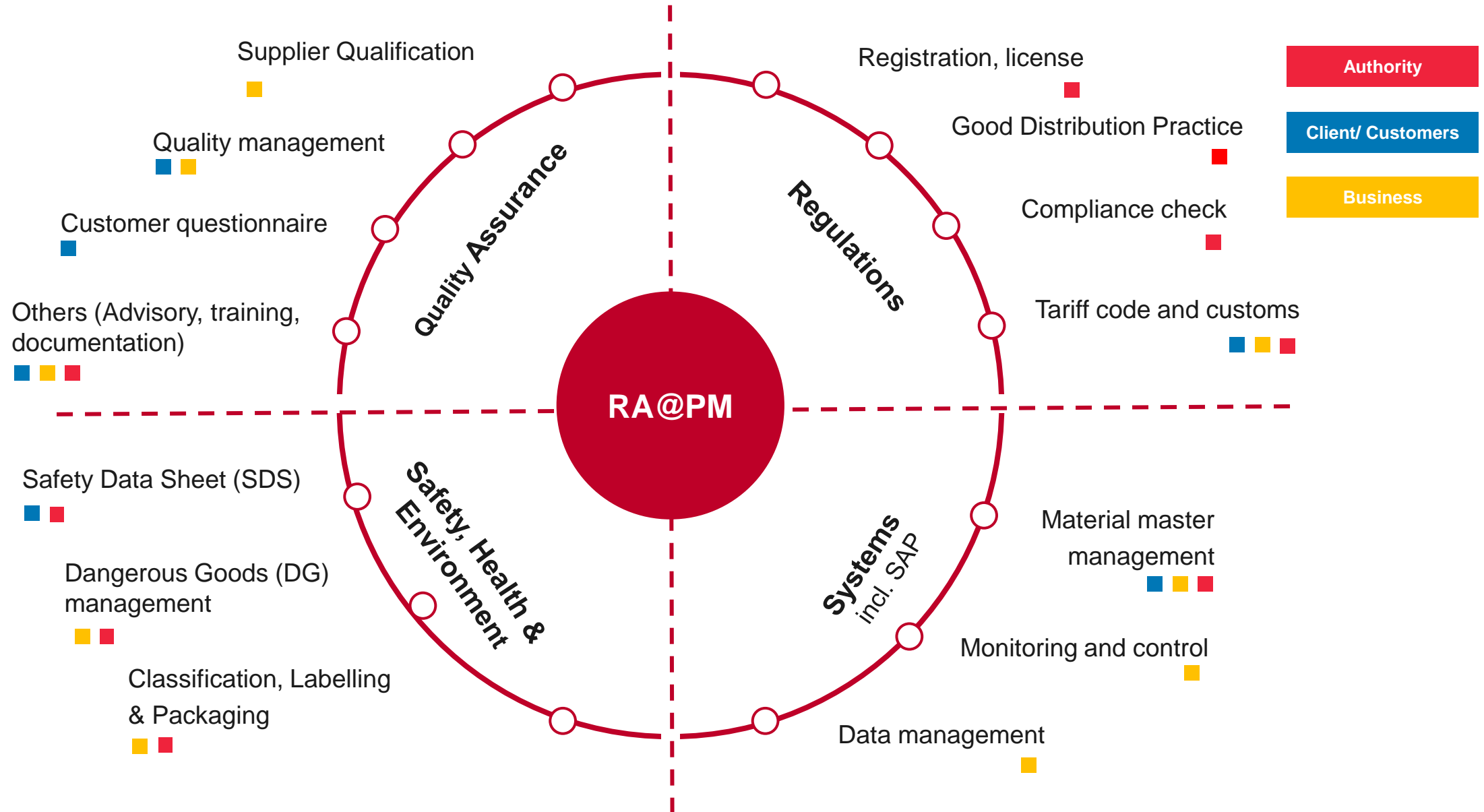
LOGISTIC and DISTRIBUTION - DKSH Expertise with seamless inventory management across the Globe – securitization, importation, storage, logistics and regulatory requirements

SERVICE EXCELLENCE - Dedicated and Responsive field-based specialist and dedicated customer service support.

CONVENIENCE - Warehouses across the Globe for customer-reserved inventory – storage at approved facility, Biopharma capable with temperature control and audited to GDP standards

CUSTOMIZATION - Custom quantities and wide range of packaging alternatives to fit your biomanufacturing process

Local Regulatory Support



Our Sustainability Commitments



WE SUPPORT



RIGHT TO PLAY



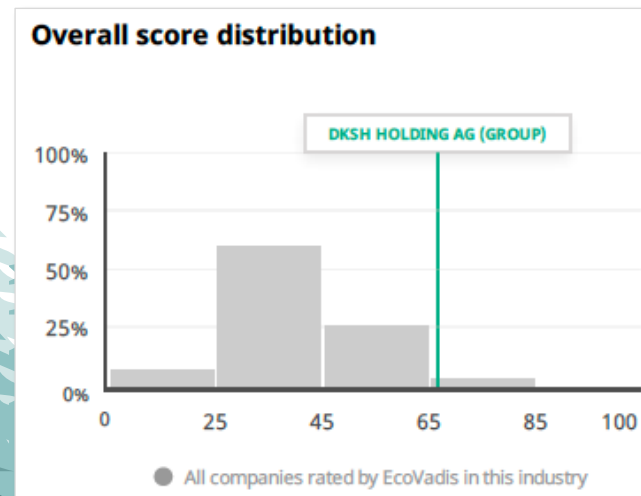
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