

1. Identification of Substance

Product and Company Identification

Kidney Profile

(ALB, CRE, BUN, K⁺, tCO₂, Ca, P)

Liver Profile

(TP, ALB, ALT, AST, GGT, ALP, TBIL, DBIL, TBA)

Electrolytes

(tCO₂ K⁺, Na⁺, Ca, P, Mg, Cl⁻)

Diabetes Panel

(TG, CHOL, FRU, GLU)

Liver and Kidney Profile

(ALB, TP, ALT, AST, CRE, GGT, TBIL, BUN, GLU)

Health Checking Profile

(ALB, TP, CK, ALT, ALP, CHOL, CRE, TBIL, AMY, BUN, GLU, Ca, P)

Health Checking Plus Profile

(TP, ALB, ALT, ALP, TBIL, CRE, BUN, GLU, CHOL, AMY, Ca, P, TBA, K⁺, Na⁺)

Avian & Reptile Panel

(TP, ALB, AST, CK, GLU, UA, Ca, P, K⁺, Na⁺, Cl⁻, TBA)

Blood Gas Profile

(CRE, BUN, GLU, K⁺, Na⁺, Cl⁻, tCO₂, Ca, LAC, pH, Mg, P)

Pancreatitis Profile

(TP, ALB, Ca, GLU, AMY, LPS)

Large Animal Diagnostics

(TP, ALB, AST, GGT, BUN, CK, ALP, Ca, P, Mg)

Critical Care Panel

(ALT, CRE, BUN, GLU, K⁺, Na⁺, Cl⁻, tCO₂)

Preanesthetic Panel Plus

(TP, ALT, AST, ALP, CRE, BUN, GLU, CK, LDH)

Preanesthetic Panel

(TP, ALB, ALT, ALP, CRE, BUN, GLU)

Comprehensive Profile (24)

(TP, ALB, ALT, AST, GGT, ALP, TBIL, TBA, CRE, BUN, CK, AMY, GLU, TG, CHOL, Ca, P, Mg, tCO₂)

Triple Tests Profile(3)

(TP, ALB, ALT, ALP, TBIL, CRE, BUN, CK, AMY, GLU, CHOL, Ca, P)

Equine Profile

(TP, ALB, AST, GGT, ALP, TBIL, CRE, BUN, CK, GLU, K, Na⁺, Ca, tCO₂)

Ammonia Test Profile

(NH₃)

TBA Profile

(TBA)

Catalogue Number: MNCHIP reagent disc types
Manufacturer: 1-4F,Area,No.122 Dongting Rd,Development Zone,300457 Tianjin
P.R.China
Emergency Call: +86 (0)22 59861168

2. Hazards Identification

Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety data sheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments

Potential Health Effects

Label elements.

Effective: 12/01/2024

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Pictograms:



Warning

Hazard indication

H302	Harmful if swallowed
H315	Causes skin irritation
H335	May cause respiratory irritation
H401	To avoid risks to human health and the environment, comply with the instructions for use
P273	Avoid release to the environment
P235	Keep cool (2-8°C)
P308 + P313	If exposed or concerned: Get medical advice/attention

Caution recommendations:

P280	Wear protective gloves/ protective clothing/ eye protection/ face protection
P302+P352	IF ON SKIN, flush exposed skin with copious amounts of water for a minimum of 15 minutes
P332+P313	If skin irritation occurs: Get medical advice / attention.

3. Composition and Information on Ingredients

This product consists of reagent beads comprised of a mixture of low hazard lyophilized chemical beads enclosed in a plastic rotor. These beads are in concentrations not associated with human or environmental toxicity, which contain among the listed items, enzymes, preservatives and stabilizers in concentrations under 1%. Each rotor contains a cup of diluent containing less than 0.5 ml of water and preservatives in concentrations of less than 1%.

Hazardous Ingredients per EU Quaternary Ammonium Salts<6.5% criteria:

1. Kidney Profile

Material Name	CAS No.	Character
2,4,6-Tribromo-3-hydroxybenzoic acid	14348-40-4	White crystal
4-Aminoantipyrine hydrochloride	22198-72-7	Yellowish powder
8-Hydroxyquinoline-5-sulfonic acid	207386-92-3	White solid

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ADP potassium salt	72696-48-1	White Powder
D-trehalose	6138-23-4	White Powder
NADH	58-68-4	White Powder
NAD sodium salt	20111-18-6	White solid
N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid	29915-38-6	White Powder
Triton X-100	9002-93-1	Liquid
α -D-Glucose-1,6-diphosphate tetrakis(cyclohexylammonium) salt hydrate	71662-13-0	White powder
α -ketoglutaric acid	328-50-7	White Powder
β -Phosphoglucose mutase	5.4.2.6	White powder
Sodium oxalate	565-73-1	White powder
Sodium cholate	361-09-1	White Powder
D-Mannitol	69-65-8	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
Peroxidase	1.11.1.7	Reddish-brown powder
Sarcosine oxidase	1.5.3.1	Yellow powder
Inositol	87-89-8	White Powder
Creatininase	3.5.2.10	White powder
Creatinase	3.5.3.3	White powder
Polyoxyethylene(23) lauryl ether	9002-92-0	Transparent oily liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Ascorbase	1.10.3.3	Light blue powder
Phosphoenolpyruvic acid	4265-07-0	White powder
Phosphoenolpyruvate carboxylase	9067-77-0	White powder
Magnesium sulfate	7487-88-9	White powder
Magnesium chloride hexahydrate	7791-18-6	White powder
Potassium chloride	7447-40-7	White powder
Sodium chloride	7647-14-5	White powder
Maltose	6363-53-7	Powder
Maltose phosphorylase	2.4.1.8	White powder
Urease	3.5.1.5	White powder
Citrate	77-92-9	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder
Bovine Serum Albumin	9048-46-8	White powder
Arsenazo III	1668-00-4	Purple brown powder
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
Orthoboric acid	10043-35-3	White powder
Malate dehydrogenase	1.1.1.37	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder

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Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Bromocresol green	76-60-8	Yellow solid
Potassium ferrocyanide	13943-58-3	Yellow crystal
Ethylenediaminetetraacetic acid	60-00-4	White powder
Sucrose	57-50-1	White powder
Cryptofix 221	31364-42-8	Liquid
Adenosine diphosphate	58-64-0	White powder
Pyruvate kinase (PK)	2.7.1.40	White powder
Polyethylene glycol 20000	25322-68-3	Transparent viscous liquid
Manganese chloride (MnCl ₂)	7773-01-5	Pink powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension

2. Liver Profile

Material Name	CAS No.	Character
D-trehalose	6138-23-4	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
D-sorbitol	50-70-4	Yellow liquid
L-r-Glutamyl-3-carboxy-4-nitroaniline	63699-78-5	Yellowish powder
L-Alanine	56-41-7	White Powder
L-Aspartic acid	56-84-8	White Powder
NADH	58-68-4	White Powder
Thesit	9002-92-0	Clear oily liquid
Triton X-100	9002-93-1	Liquid
α -ketoglutaric acid	328-50-7	White Powder
Bilirubin oxidase	1.3.3.5	White Powder
cholic acid	81-25-4	White Powder
Sodium cholate	361-09-1	White Powder
Potassium iodide	7681-11-0	White Powder
Glycylglycine	556-50-3	White Powder
D-Mannitol	69-65-8	White powder
Inositol	87-89-8	White Powder
Potassium sodium tartrate •4H ₂ O	6381-59-5	White powder
Polyoxyethylene(23) lauryl ether	9002-92-0	Transparent oily liquid
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyvinylpyrrolidone	9003-39-8	White powder
Potassium chloride	7447-40-7	White powder
Sodium chloride	7647-14-5	White powder
Citrate	77-92-9	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder

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Bovine Serum Albumin	9048-46-8	White powder
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
Malate dehydrogenase	1.1.1.37	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Sodium hydroxide	1310-73-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Sodium carbonate	497-19-8	White powder
Copper sulfate pentahydrate	7758-99-8	Blue solid
Bromocresol green	76-60-8	Yellow solid
Sucrose	57-50-1	White powder
Sodium bicarbonate	144-55-8	White powder
Ethylenediaminetetraacetic acid	60-00-4	White powder
Zinc Sulfate Heptahydrate	7446-20-0	White solid
Magnesium chloride hexahydrate	7791-18-6	White powder
4-Nitrophenylphosphoric acid bis(trimethylolvanamide) salt hydrate	68189-42-4	Solid
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
Ascorbase	1.10.3.3	Light blue powder
N-Acetyl-L-cysteine	616-91-1	White Powder
Sodium Fluoride	7681-49-4	White Powder
Sodium p-toluenesulfonate	657-84-1	White Powder
Potassium hydrogen phthalate	877-24-7	White Powder
Bilirubin oxidase	1.3.3.5	White Powder
N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid	29915-38-6	White Powder
Thionicotinamide adenine dinucleotide	4090-29-3	Solid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
NADPH	2646-71-1	White Powder
3 α -Hydroxysteroid dehydrogenase	9028-56-2	Solid

3. Electrolytes

Material Name	CAS No.	Character
2-Chloro-4-nitrophenol maltodioside	---	Yellowish powder
8-Hydroxyquinoline-5-sulfonic acid	207386-92-3	White solid
ATP Na salt	34369-07-8	White Powder
D-trehalose	6138-23-4	White Powder
D-glucose	50-99-7	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
EGTA	67-42-5	White Powder
NADH	58-68-4	White Powder

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NADP Sodium salt	53-59-8	White Powder
NAD sodium salt	20111-18-6	White solid
N-Acetyl-L-cysteine	616-91-1	White Powder
Polyethylene glycol	25322-68-3	Transparent viscous Liquid
Triton X-100	9002-93-1	Liquid
α -D-Glucose-1,6-diphosphate tetrakis(cyclohexylammonium) salt hydrate	71662-13-0	White powder
α -amylase	3.2.1.1	Yellow liquid
α -ketoglutaric acid	328-50-7	White Powder
β -Galactosidase	3.2.1.23	Yellow powder
β -Phosphoglucose mutase	5.4.2.6	White powder
Pyruvate kinase (PK)	2.7.1.40	White powder
Sodium oxalate	565-73-1	White powder
Sodium cholate	361-09-1	White Powder
Adenosine diphosphate	58-64-0	White powder
D-Mannitol	69-65-8	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
Inositol	87-89-8	White Powder
Hexokinase	2.7.1.1	White powder
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
o-Nitrophenyl β -D-galactopyranoside	369-07-3	White solid
Phosphoenolpyruvic acid	4265-07-0	White powder
Phosphoenolpyruvate carboxylase	9067-77-0	White powder
Magnesium sulfate	7487-88-9	White powder
Magnesium chloride hexahydrate	7791-18-6	White powder
Potassium chloride	7447-40-7	White powder
Manganese chloride (MnCl ₂)	7773-01-5	Pink powder
Morpholineethanesulfonic acid (MSA)	4432-31-9	White powder
Maltose	6363-53-7	Powder
Maltose phosphorylase	2.4.1.8	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder
Bovine Serum Albumin	9048-46-8	White powder
Arsenazo III	1668-00-4	Purple brown powder
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
Orthoboric acid	10043-35-3	White powder
Malate dehydrogenase	1.1.1.37	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Lithium hydroxide anhydrous	1310-65-2	White solid

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Cryptofix 221	31364-42-8	Liquid
Ethylenediaminetetraacetic acid	60-00-4	White powder
Calcium acetate monohydrate	5743-26-0	White powder
Sucrose	57-50-1	White powder

4. Diabetes Panel

Material Name	CAS No.	Character
ATP Na salt	34369-07-8	White Powder
D-trehalose	6138-23-4	White Powder
NADP Sodium salt	53-59-8	White Powder
NAD sodium salt	20111-18-6	White solid
Polyethylene glycol	25322-68-3	Transparent viscous liquid
Triton X-100	9002-93-1	Liquid
Cholesterol dehydrogenase	9035-82-9	White Powder
Cholesterol esterase	3.1.1.13	White Powder
Iodonitrotetrazolium chloride blue	146-68-9	Yellow powder
D-Mannitol	69-65-8	White powder
Glycerol-3-phosphate dehydrogenase	9046-28-0	Yellow powder
Glycerol kinase	2.7.1.30	White powder
Diaphorase(enzyme)	1.6.5.2	Yellowish powder
Inositol	87-89-8	White Powder
Hexokinase	2.7.1.1	White powder
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Potassium dihydrogen phosphate	7778-77-0	White powder
Dipotassium hydrogen phosphate	7758-11-4	White crystal
Magnesium sulfate	7487-88-9	White powder
Magnesium chloride hexahydrate	7791-18-6	White powder
Lithium chloride	7447-41-8	White solid
Sodium chloride	7647-14-5	White powder
Bovine Serum Albumin	9048-46-8	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Sodium dextran sulfate	9011-18-1	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Adenosine triphosphate (ATP)	51963-61-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Sodium carbonate	497-19-8	White powder
Sodium bicarbonate	144-55-8	White powder
Nitrotetrazole Blue	298-83-9	Yellow powder
Oxidative coenzyme I	53-84-9	White powder
Sucrose	57-50-1	White powder

Material Safety Data Sheet

Lipoprotein lipase	3.1.1.34	White powder
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5. Liver and Kidney Profile

Material Name	CAS No.	Character
2,4,6-Tribromo-3-hydroxybenzoic acid	14348-40-4	White crystal
4-Aminoantipyrine hydrochloride	22198-72-7	Yellowish powder
ADP potassium salt	72696-48-1	White Powder
D-trehalose	6138-23-4	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
D-sorbitol	50-70-4	Yellow liquid
L-r-Glutamyl-3-carboxy-4-nitroaniline	63699-78-5	Yellowish powder
L-Alanine	56-41-7	White Powder
L-Aspartic acid	56-84-8	White Powder
NADH	58-68-4	White Powder
NADP Sodium salt	53-59-8	White Powder
N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid	29915-38-6	White Powder
Polyethylene glycol	25322-68-3	Transparent viscous liquid
Thesit	9002-92-0	Clear oily liquid
Triton X-100	9002-93-1	Liquid
α -ketoglutaric acid	328-50-7	White Powder
Bilirubin oxidase	1.3.3.5	White Powder
cholic acid	81-25-4	White Powder
Sodium cholate	361-09-1	White Powder
Potassium iodide	7681-11-0	White Powder
Glycylglycine	556-50-3	White Powder
D-Mannitol	69-65-8	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
Peroxidase	1.11.1.7	Reddish-brown powder
Sarcosine oxidase	1.5.3.1	Yellow powder
Inositol	87-89-8	White Powder
Creatininase	3.5.2.10	White powder
Creatinase	3.5.3.3	White powder
Hexokinase	2.7.1.1	White powder
Potassium sodium tartrate $\cdot 4H_2O$	6381-59-5	White powder
Polyoxyethylene(23) lauryl ether	9002-92-0	Transparent oily liquid
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Polyvinylpyrrolidone	9003-39-8	White powder
Ascorbase	1.10.3.3	Light blue powder
Magnesium sulfate	7487-88-9	White powder
Potassium chloride	7447-40-7	White powder
Sodium chloride	7647-14-5	White powder

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Urease	3.5.1.5	White powder
Citrate	77-92-9	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder
Bovine Serum Albumin	9048-46-8	White powder
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
Malate dehydrogenase	1.1.1.37	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Sodium hydroxide	1310-73-2	White powder
Adenosine triphosphate (ATP)	51963-61-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Sodium carbonate	497-19-8	White powder
Copper sulfate pentahydrate	7758-99-8	Blue solid
Bromocresol green	76-60-8	Yellow solid
Potassium ferrocyanide	13943-58-3	Yellow crystal
Ethylenediaminetetraacetic acid	60-00-4	White powder
Sucrose	57-50-1	White powder

6. Health Checking Profile

Material Name	CAS No.	Character
2,4,6-Tribromo-3-hydroxybenzoic acid	14348-40-4	White crystal
2-Chloro-4-nitrophenol maltodioside	---	Yellowish powder
4-Aminoantipyrine hydrochloride	22198-72-7	Yellowish powder
8-Hydroxyquinoline-5-sulfonic acid	207386-92-3	White solid
ADP potassium salt	72696-48-1	White Powder
AMP	61-19-8	White Powder
AP5A	75522-97-3	White Powder
D-trehalose	6138-23-4	White Powder
D-glucose	50-99-7	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
D-sorbitol	50-70-4	Yellow liquid
L-Alanine	56-41-7	White Powder
NADH	58-68-4	White Powder
NADP Sodium salt	53-59-8	White Powder
NAD sodium salt	20111-18-6	White solid
N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid	29915-38-6	White Powder
N-Acetyl-L-cysteine	616-91-1	White Powder
Polyethylene glycol	25322-68-3	Transparent viscous liquid
Thesit	9002-92-0	Clear oily liquid

Triton X-100	9002-93-1	Liquid
α -D-Glucose-1,6-diphosphate tetrakis(cyclohexylammonium) salt hydrate	71662-13-0	White powder
α -ketoglutaric acid	328-50-7	White Powder
β -Phosphoglucose mutase	5.4.2.6	White powder
Cholesterol dehydrogenase	9035-82-9	White Powder
Cholesterol esterase	3.1.1.13	White Powder
Bilirubin oxidase	1.3.3.5	White Powder
cholic acid	81-25-4	White Powder
Sodium cholate	361-09-1	White Powder
Potassium iodide	7681-11-0	White Powder
Adenosine diphosphate	58-64-0	White powder
D-Mannitol	69-65-8	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
Peroxidase	1.11.1.7	Reddish-brown powder
Sarcosine oxidase	1.5.3.1	Yellow powder
Inositol	87-89-8	White Powder
Creatininase	3.5.2.10	White powder
Creatinase	3.5.3.3	White powder
Hexokinase	2.7.1.1	White powder
Potassium sodium tartrate $\cdot 4H_2O$	6381-59-5	White powder
Polyoxyethylene(23) lauryl ether	9002-92-0	Transparent oily liquid
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Polyvinylpyrrolidone	9003-39-8	White powder
Ascorbase	1.10.3.3	Light blue powder
Creatine phosphate	922-32-7	White solid
Magnesium sulfate	7487-88-9	White powder
Magnesium chloride hexahydrate	7791-18-6	White powder
Potassium chloride	7447-40-7	White powder
Lithium chloride	7447-41-8	White solid
Sodium chloride	7647-14-5	White powder
Morpholineethanesulfonic acid (MSA)	4432-31-9	White powder
Maltose	6363-53-7	Powder
Maltose phosphorylase	2.4.1.8	White powder
Imidazole	288-32-4	White powder
Urease	3.5.1.5	White powder
Citrate	77-92-9	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder
Bovine Serum Albumin	9048-46-8	White powder
Arsenazo III	1668-00-4	Purple brown powder

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Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
Orthoboric acid	10043-35-3	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Sodium hydroxide	1310-73-2	White powder
Adenosine triphosphate (ATP)	51963-61-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Sodium carbonate	497-19-8	White powder
Copper sulfate pentahydrate	7758-99-8	Blue solid
Bromocresol green	76-60-8	Yellow solid
Potassium ferrocyanide	13943-58-3	Yellow crystal
Oxidative coenzyme I	53-84-9	White powder
Ethylenediaminetetraacetic acid	60-00-4	White powder
Calcium acetate monohydrate	5743-26-0	White powder
Magnesium acetate tetrahydrate	16674-78-5	White powder
Sucrose	57-50-1	White powder
Sodium bicarbonate	144-55-8	White powder
Zinc Sulfate Heptahydrate	7446-20-0	White solid
4-Nitrophenylphosphoric acid bis(trimethylolvanamide) salt hydrate	68189-42-4	Solid
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder

7. Health Checking Plus Profile

Material Name	CAS No.	Character
2,4,6-Tribromo-3-hydroxybenzoic acid	14348-40-4	White crystal
2-Chloro-4-nitrophenol maltodioside	---	Yellowish powder
3 α -Hydroxysteroid dehydrogenase	9028-56-2	Solid
4-Aminoantipyrine hydrochloride	22198-72-7	Yellowish powder
8-Hydroxyquinoline-5-sulfonic acid	207386-92-3	White solid
ADP potassium salt	72696-48-1	White Powder
D-trehalose	6138-23-4	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
D-sorbitol	50-70-4	Yellow liquid
EGTA	67-42-5	White Powder
L-Alanine	56-41-7	White Powder
NADH	58-68-4	White Powder
NADP Sodium salt	53-59-8	White Powder
NAD sodium salt	20111-18-6	White solid
N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid	29915-38-6	White Powder

N-Acetyl-L-cysteine	616-91-1	White Powder
Polyethylene glycol	25322-68-3	Transparent viscous liquid
Thesit	9002-92-0	Clear oily liquid
Triton X-100	9002-93-1	Liquid
α -D-Glucose-1,6-diphosphate tetrakis(cyclohexylammonium) salt hydrate	71662-13-0	White powder
α -ketoglutaric acid	328-50-7	White Powder
β -Galactosidase	3.2.1.23	Yellow powder
β -Phosphoglucose mutase	5.4.2.6	White powder
Pyruvate kinase (PK)	2.7.1.40	White powder
Cholesterol dehydrogenase	9035-82-9	White Powder
Cholesterol esterase	3.1.1.13	White Powder
Bilirubin oxidase	1.3.3.5	White Powder
cholic acid	81-25-4	White Powder
Sodium cholate	361-09-1	White Powder
Potassium iodide	7681-11-0	White Powder
Adenosine diphosphate	58-64-0	White powder
D-Mannitol	69-65-8	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
Peroxidase	1.11.1.7	Reddish-brown powder
NADPH	2646-71-1	White Powder
Sarcosine oxidase	1.5.3.1	Yellow powder
Inositol	87-89-8	White Powder
Creatininase	3.5.2.10	White powder
Creatinase	3.5.3.3	White powder
Hexokinase	2.7.1.1	White powder
Potassium sodium tartrate \cdot 4H ₂ O	6381-59-5	White powder
Polyoxyethylene(23) lauryl ether	9002-92-0	Transparent oily liquid
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Polyvinylpyrrolidone	9003-39-8	White powder
Ascorbase	1.10.3.3	Light blue powder
o-Nitrophenyl β -D-galactopyranoside	369-07-3	White solid
Phosphoenolpyruvic acid	4265-07-0	White powder
Magnesium sulfate	7487-88-9	White powder
Magnesium chloride hexahydrate	7791-18-6	White powder
Potassium chloride	7447-40-7	White powder
Lithium chloride	7447-41-8	White solid
Manganese chloride (MnCl ₂)	7773-01-5	Pink powder
Sodium chloride	7647-14-5	White powder
Morpholineethanesulfonic acid (MSA)	4432-31-9	White powder

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Maltose	6363-53-7	Powder
Maltose phosphorylase	2.4.1.8	White powder
Urease	3.5.1.5	White powder
Citrate	77-92-9	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder
Bovine Serum Albumin	9048-46-8	White powder
Arsenazo III	1668-00-4	Purple brown powder
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
Orthoboric acid	10043-35-3	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Sodium hydroxide	1310-73-2	White powder
Adenosine triphosphate (ATP)	51963-61-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Sodium carbonate	497-19-8	White powder
Lithium hydroxide anhydrous	1310-65-2	White solid
Copper sulfate pentahydrate	7758-99-8	Blue solid
Bromocresol green	76-60-8	Yellow solid
Cryptofix 221	31364-42-8	Liquid
Potassium ferrocyanide	13943-58-3	Yellow crystal
Oxidative coenzyme I	53-84-9	White powder
Thionicotinamide adenine dinucleotide	4090-29-3	Solid
Ethylenediaminetetraacetic acid	60-00-4	White powder
Calcium acetate monohydrate	5743-26-0	White powder
Sucrose	57-50-1	White powder
Sodium bicarbonate	144-55-8	White powder
Zinc Sulfate Heptahydrate	7446-20-0	White solid
4-Nitrophenylphosphoric acid bis(trimethylolvanamide) salt hydrate	68189-42-4	Solid

8. Avian & Reptile Panel

Material Name	CAS No.	Character
2-Chloro-4-nitrophenol maltodioside	---	Yellowish powder
Sodium 3,5-dichloro-2-hydroxybenzenesulfonate	54970-72-8	White Powder
3 α -Hydroxysteroid dehydrogenase	9028-56-2	Solid
4-Aminoantipyrine hydrochloride	22198-72-7	Yellowish powder
8-Hydroxyquinoline-5-sulfonic acid	207386-92-3	White solid
AMP	61-19-8	White Powder
AP5A	75522-97-3	White Powder

D-trehalose	6138-23-4	White Powder
D-glucose	50-99-7	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
EGTA	67-42-5	White Powder
L-Aspartic acid	56-84-8	White Powder
NADH	58-68-4	White Powder
NADP Sodium salt	53-59-8	White Powder
NAD sodium salt	20111-18-6	White solid
N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid	29915-38-6	White Powder
N-Acetyl-L-cysteine	616-91-1	White Powder
Polyethylene glycol	25322-68-3	Transparent viscous liquid
Thesit	9002-92-0	Clear oily liquid
Triton X-100	9002-93-1	Liquid
α -D-Glucose-1,6-diphosphate tetrakis(cyclohexylammonium) salt hydrate	71662-13-0	White powder
α -amylase	3.2.1.1	Yellow liquid
α -ketoglutaric acid	328-50-7	White Powder
β -Galactosidase	3.2.1.23	Yellow powder
β -Phosphoglucose mutase	5.4.2.6	White powder
Pyruvate kinase (PK)	2.7.1.40	White powder
cholic acid	81-25-4	White Powder
Sodium cholate	361-09-1	White Powder
Potassium iodide	7681-11-0	White Powder
Adenosine diphosphate	58-64-0	White powder
D-Mannitol	69-65-8	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
Peroxidase	1.11.1.7	Reddish-brown powder
NADPH	2646-71-1	White Powder
Inositol	87-89-8	White Powder
Hexokinase	2.7.1.1	White powder
Potassium sodium tartrate $\cdot 4H_2O$	6381-59-5	White powder
Polyoxyethylene(23) lauryl ether	9002-92-0	Transparent oily liquid
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Polyvinylpyrrolidone	9003-39-8	White powder
Ascorbase	1.10.3.3	Light blue powder
o-Nitrophenyl β -D-galactopyranoside	369-07-3	White solid
Creatine phosphate	922-32-7	White solid
Phosphoenolpyruvic acid	4265-07-0	White powder
Magnesium sulfate	7487-88-9	White powder
Magnesium chloride hexahydrate	7791-18-6	White powder
Potassium chloride	7447-40-7	White powder

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Manganese chloride (MnCl ₂)	7773-01-5	Pink powder
Sodium chloride	7647-14-5	White powder
Morpholineethanesulfonic acid (MSA)	4432-31-9	White powder
Maltose	6363-53-7	Powder
Maltose phosphorylase	2.4.1.8	White powder
Imidazole	288-32-4	White powder
Uricase (enzyme)	1.7.3.3	White powder
Citrate	77-92-9	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder
Bovine Serum Albumin	9048-46-8	White powder
Arsenazo III	1668-00-4	Purple brown powder
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
Orthoboric acid	10043-35-3	White powder
Malate dehydrogenase	1.1.1.37	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Sodium hydroxide	1310-73-2	White powder
Adenosine triphosphate (ATP)	51963-61-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Sodium carbonate	497-19-8	White powder
Lithium hydroxide anhydrous	1310-65-2	White solid
Copper sulfate pentahydrate	7758-99-8	Blue solid
Bromocresol green	76-60-8	Yellow solid
Cryptofix 221	31364-42-8	Liquid
Potassium ferrocyanide	13943-58-3	Yellow crystal
Thionicotinamide adenine dinucleotide	4090-29-3	Solid
Ethylenediaminetetraacetic acid	60-00-4	White powder
Calcium acetate monohydrate	5743-26-0	White powder
Magnesium acetate tetrahydrate	16674-78-5	White powder
Sucrose	57-50-1	White powder

9. Blood Gas Profile

Material Name	CAS No.	Character
2,4,6-Tribromo-3-hydroxybenzoic acid	14348-40-4	White crystal
2-Chloro-4-nitrophenol maltodioside	---	Yellowish powder
Sodium 3,5-dichloro-2-hydroxybenzenesulfonate	54970-72-8	White Powder
4-Aminoantipyrine hydrochloride	22198-72-7	Yellowish powder
8-Hydroxyquinoline-5-sulfonic acid	207386-92-3	White solid
ADP potassium salt	72696-48-1	White Powder

D-trehalose	6138-23-4	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
EGTA	67-42-5	White Powder
NADH	58-68-4	White Powder
NADP Sodium salt	53-59-8	White Powder
N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid	29915-38-6	White Powder
N-Acetyl-L-cysteine	616-91-1	White Powder
Polyethylene glycol	25322-68-3	Transparent viscous liquid
Triton X-100	9002-93-1	Liquid
α -amylase	3.2.1.1	Yellow liquid
α -ketoglutaric acid	328-50-7	White Powder
β -Galactosidase	3.2.1.23	Yellow powder
Pyruvate kinase (PK)	2.7.1.40	White powder
Sodium oxalate	565-73-1	White powder
Sodium cholate	361-09-1	White Powder
Adenosine diphosphate	58-64-0	White powder
Phenol red	143-74-8	Red powder
D-Mannitol	69-65-8	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
Peroxidase	1.11.1.7	Reddish-brown powder
Sarcosine oxidase	1.5.3.1	Yellow powder
Inositol	87-89-8	White Powder
Creatininase	3.5.2.10	White powder
Creatinase	3.5.3.3	White powder
Hexokinase	2.7.1.1	White powder
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Ascorbase	1.10.3.3	Light blue powder
o-Nitrophenyl β -D-galactopyranoside	369-07-3	White solid
Phosphoenolpyruvic acid	4265-07-0	White powder
Phosphoenolpyruvate carboxylase	9067-77-0	White powder
Magnesium sulfate	7487-88-9	White powder
Magnesium chloride hexahydrate	7791-18-6	White powder
Potassium chloride	7447-40-7	White powder
Manganese chloride (MnCl ₂)	7773-01-5	Pink powder
Sodium chloride	7647-14-5	White powder
Morpholineethanesulfonic acid (MSA)	4432-31-9	White powder
Gelatin	9000-70-8	Solid
Urease	3.5.1.5	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder

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Bovine Serum Albumin	9048-46-8	White powder
Arsenazo III	1668-00-4	Purple brown powder
Orthoboric acid	10043-35-3	White powder
Malate dehydrogenase	1.1.1.37	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Lactate oxidase	9028-72-2	Solid
Adenosine triphosphate (ATP)	51963-61-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Lithium hydroxide anhydrous	1310-65-2	White solid
Cryptofix 221	31364-42-8	Liquid
Potassium ferrocyanide	13943-58-3	Yellow crystal
Ethylenediaminetetraacetic acid	60-00-4	White powder
Calcium acetate monohydrate	5743-26-0	White powder
Sucrose	57-50-1	White powder
Trometamol	77-86-1	White powder
EGTA	67-42-5	White Powder
D-trehalose	6138-23-4	White Powder
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Dextran 40000	9004-54-0	White powder
D-glucose	50-99-7	White Powder
NADP Sodium salt	53-59-8	White Powder
ATP Na salt	34369-07-8	White Powder
Triton X-100	9002-93-1	Liquid
Hexokinase	2.7.1.1	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
NAD sodium salt	20111-18-6	White solid
Maltose	6363-53-7	Powder
α -D-Glucose-1,6-diphosphate tetrakis(cyclohexylammonium) salt hydrate	71662-13-0	White powder
β -Phosphoglucose mutase	5.4.2.6	White powder
Maltose phosphorylase	2.4.1.8	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder

10. Pancreatitis Profile

Material Name	CAS No.	Character
2-Chloro-4-nitrophenol maltodioside	---	Yellowish powder
8-Hydroxyquinoline-5-sulfonic acid	207386-92-3	White solid

D-trehalose	6138-23-4	White Powder
NADP Sodium salt	53-59-8	White Powder
Polyethylene glycol	25322-68-3	Transparent viscous liquid
Thesit	9002-92-0	Clear oily liquid
cholic acid	81-25-4	White Powder
Sodium cholate	361-09-1	White Powder
Potassium iodide	7681-11-0	White Powder
D-Mannitol	69-65-8	White powder
Inositol	87-89-8	White Powder
Hexokinase	2.7.1.1	White powder
Potassium sodium tartrate •4H ₂ O	6381-59-5	White powder
Polyoxyethylene(23) lauryl ether	9002-92-0	Transparent oily liquid
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Polyvinylpyrrolidone	9003-39-8	White powder
Magnesium sulfate	7487-88-9	White powder
Lithium chloride	7447-41-8	White solid
Sodium chloride	7647-14-5	White powder
Morpholineethanesulfonic acid (MSA)	4432-31-9	White powder
Citrate	77-92-9	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder
Bovine Serum Albumin	9048-46-8	White powder
Arsenazo III	1668-00-4	Purple brown powder
Orthoboric acid	10043-35-3	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Sodium hydroxide	1310-73-2	White powder
Adenosine triphosphate (ATP)	51963-61-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Sodium carbonate	497-19-8	White powder
Copper sulfate pentahydrate	7758-99-8	Blue solid
Bromocresol green	76-60-8	Yellow solid
Calcium acetate monohydrate	5743-26-0	White powder
Sucrose	57-50-1	White powder
Glycine	56-40-6	White powder
Sodium deoxycholate	302-95-4	White powder
Colipase	55126-92-6	White Powder
Sucrose	57-50-1	White powder
D-trehalose	6138-23-4	White Powder

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Dextran 40000	9004-54-0	White powder
Resorufin methyl ether	5725-89-3	Solid

11. Large Animal Diagnostics

Material Name	CAS No.	Character
8-Hydroxyquinoline-5-sulfonic acid	207386-92-3	White solid
ADP potassium salt	72696-48-1	White Powder
AMP	61-19-8	White Powder
AP5A	75522-97-3	White Powder
ATP Na salt	34369-07-8	White Powder
D-trehalose	6138-23-4	White Powder
D-glucose	50-99-7	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
EGTA	67-42-5	White Powder
L-r-Glutamyl-3-carboxy-4-nitroaniline	63699-78-5	Yellowish powder
L-Aspartic acid	56-84-8	White Powder
NADH	58-68-4	White Powder
NADP Sodium salt	53-59-8	White Powder
NAD sodium salt	20111-18-6	White solid
N-Acetyl-L-cysteine	616-91-1	White Powder
Thesit	9002-92-0	Clear oily liquid
Triton X-100	9002-93-1	Liquid
α -D-Glucose-1,6-diphosphate tetrakis(cyclohexylammonium) salt hydrate	71662-13-0	White powder
α -ketoglutaric acid	328-50-7	White Powder
β -Phosphoglucose mutase	5.4.2.6	White powder
cholic acid	81-25-4	White Powder
Sodium cholate	361-09-1	White Powder
Potassium iodide	7681-11-0	White Powder
Adenosine diphosphate	58-64-0	White powder
Glycylglycine	556-50-3	White Powder
D-Mannitol	69-65-8	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
Inositol	87-89-8	White Powder
Hexokinase	2.7.1.1	White powder
Alkaline phosphatase R1	9001-78-9	White powder
Alkaline phosphatase R2	9001-78-9	White powder
Potassium sodium tartrate \cdot 4H ₂ O	6381-59-5	White powder
Polyoxyethylene(23) lauryl ether	9002-92-0	Transparent oily liquid
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Polyvinylpyrrolidone	9003-39-8	White powder

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Creatine phosphate	922-32-7	White solid
Magnesium chloride hexahydrate	7791-18-6	White powder
Potassium chloride	7447-40-7	White powder
Sodium chloride	7647-14-5	White powder
Maltose	6363-53-7	Powder
Maltose phosphorylase	2.4.1.8	White powder
Imidazole	288-32-4	White powder
Urease	3.5.1.5	White powder
Citrate	77-92-9	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder
Bovine Serum Albumin	9048-46-8	White powder
Arsenazo III	1668-00-4	Purple brown powder
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
Orthoboric acid	10043-35-3	White powder
Malate dehydrogenase	1.1.1.37	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Sodium hydroxide	1310-73-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Sodium carbonate	497-19-8	White powder
Copper sulfate pentahydrate	7758-99-8	Blue solid
Bromocresol green	76-60-8	Yellow solid
Ethylenediaminetetraacetic acid	60-00-4	White powder
Magnesium acetate tetrahydrate	16674-78-5	White powder
Sucrose	57-50-1	White powder

12. Critical Care Panel

Material Name	CAS No.	Character
Trometamol	77-86-1	White powder
L-Alanine	56-41-7	White Powder
α -ketoglutaric acid	328-50-7	White Powder
Sodium chloride	7647-14-5	White powder
D-trehalose	6138-23-4	White Powder
D-sorbitol	50-70-4	Yellow liquid
Triton X-100	9002-93-1	Liquid
Bovine Serum Albumin	9048-46-8	White powder
NADH	58-68-4	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
Ethylenediaminetetraacetic acid	60-00-4	White powder
Sucrose	57-50-1	White powder

Dextran 40000	9004-54-0	White powder
Starch soluble	9005-84-9	White solid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Urease	3.5.1.5	White powder
ADP potassium salt	72696-48-1	White Powder
N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid	29915-38-6	White Powder
2,4,6-Tribromo-3-hydroxybenzoic acid	14348-40-4	White crystal
D-trehalose	6138-23-4	White Powder
Inositol	87-89-8	White Powder
Creatinase	3.5.3.3	White powder
Sarcosine oxidase	1.5.3.1	Yellow powder
Ascorbase	1.10.3.3	Light blue powder
4-Aminoantipyrine hydrochloride	22198-72-7	Yellowish powder
Potassium ferrocyanide	13943-58-3	Yellow crystal
Peroxidase	1.11.1.7	Reddish-brown powder
Creatininase	3.5.2.10	White powder
Magnesium sulfate	7487-88-9	White powder
Sodium oxalate	565-73-1	White powder
D-Mannitol	69-65-8	White powder
D-trehalose	6138-23-4	White Powder
Dextran 10000	9004-54-0	White powder
Malate dehydrogenase	1.1.1.37	White powder
Phosphoenolpyruvic acid	4265-07-0	White powder
Phosphoenolpyruvate carboxylase	9067-77-0	White powder
Cryptofix 221	31364-42-8	Liquid
Adenosine diphosphate	58-64-0	White powder
Pyruvate kinase (PK)	2.7.1.40	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
Polyethylene glycol	25322-68-3	Transparent viscous liquid
Manganese chloride (MnCl ₂)	7773-01-5	Pink powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
D-trehalose	6138-23-4	White Powder
Magnesium chloride hexahydrate	7791-18-6	White powder
EGTA	67-42-5	White Powder
N-Acetyl-L-cysteine	616-91-1	White Powder
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
β-Galactosidase	3.2.1.23	Yellow powder
Lithium hydroxide anhydrous	1310-65-2	White solid
o-Nitrophenyl β-D-galactopyranoside	369-07-3	White solid
Morpholineethanesulfonic acid (MSA)	4432-31-9	White powder

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α -amylase	3.2.1.1	Yellow liquid
Calcium acetate monohydrate	5743-26-0	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder
2-Chloro-4-nitrophenol maltodioside	---	Yellowish powder
Magnesium sulfate	7487-88-9	White powder
NADP Sodium salt	53-59-8	White Powder
Adenosine triphosphate (ATP)	51963-61-2	White powder
Hexokinase	2.7.1.1	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Dextran 40000	9004-54-0	White powder

13. Preanesthetic Panel Plus

Material Name	CAS No.	Character
2,4,6-Tribromo-3-hydroxybenzoic acid	14348-40-4	White crystal
4-Aminoantipyrine hydrochloride	22198-72-7	Yellowish powder
4-Nitrophenylphosphoric acid bis(trimethylolvanamide) salt hydrate	68189-42-4	Solid
ADP potassium salt	72696-48-1	White Powder
AMP	61-19-8	White Powder
AP5A	75522-97-3	White Powder
D-trehalose	6138-23-4	White Powder
D-glucose	50-99-7	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
D-sorbitol	50-70-4	Yellow liquid
L-Alanine	56-41-7	White Powder
L-Aspartic acid	56-84-8	White Powder
NADH	58-68-4	White Powder
NADP Sodium salt	53-59-8	White Powder
N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid	29915-38-6	White Powder
N-Acetyl-L-cysteine	616-91-1	White Powder
Polyethylene glycol	25322-68-3	Transparent viscous liquid
Thesit	9002-92-0	Clear oily liquid
Triton X-100	9002-93-1	Liquid
α -ketoglutaric acid	328-50-7	White Powder
cholic acid	81-25-4	White Powder
Sodium cholate	361-09-1	White Powder
Potassium iodide	7681-11-0	White Powder
Iodonitrotetrazolium chloride blue	146-68-9	Yellow powder
Adenosine diphosphate	58-64-0	White powder
D-Mannitol	69-65-8	White powder

Glutamate dehydrogenase	1.4.1.3	White Powder
Peroxidase	1.11.1.7	Reddish-brown powder
Diaphorase(enzyme)	1.6.5.2	Yellowish powder
Sarcosine oxidase	1.5.3.1	Yellow powder
Inositol	87-89-8	White Powder
Creatininase	3.5.2.10	White powder
Creatinase	3.5.3.3	White powder
Hexokinase	2.7.1.1	White powder
Potassium sodium tartrate •4H ₂ O	6381-59-5	White powder
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Polyvinylpyrrolidone	9003-39-8	White powder
Ascorbase	1.10.3.3	Light blue powder
Creatine phosphate	922-32-7	White solid
Magnesium sulfate	7487-88-9	White powder
Magnesium chloride hexahydrate	7791-18-6	White powder
Potassium chloride	7447-40-7	White powder
Sodium chloride	7647-14-5	White powder
Imidazole	288-32-4	White powder
Urease	3.5.1.5	White powder
Bovine Serum Albumin	9048-46-8	White powder
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
Malate dehydrogenase	1.1.1.37	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Zinc Sulfate Heptahydrate	7446-20-0	White solid
Sodium hydroxide	1310-73-2	White powder
Lithium lactate	867-55-0	White powder
Adenosine triphosphate (ATP)	51963-61-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Sodium carbonate	497-19-8	White powder
Sodium bicarbonate	144-55-8	White powder
Copper sulfate pentahydrate	7758-99-8	Blue solid
Potassium ferrocyanide	13943-58-3	Yellow crystal
Oxidative coenzyme I	53-84-9	White powder
Ethylenediaminetetraacetic acid	60-00-4	White powder
Magnesium acetate tetrahydrate	16674-78-5	White powder
Sucrose	57-50-1	White powder

14. Preanesthetic Panel

Material Name	CAS No.	Character
2,4,6-Tribromo-3-hydroxybenzoic acid	14348-40-4	White crystal
4-Aminoantipyrine hydrochloride	22198-72-7	Yellowish powder
ADP potassium salt	72696-48-1	White Powder
D-trehalose	6138-23-4	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
D-sorbitol	50-70-4	Yellow liquid
L-Alanine	56-41-7	White Powder
NADH	58-68-4	White Powder
NADP Sodium salt	53-59-8	White Powder
N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid	29915-38-6	White Powder
Polyethylene glycol	25322-68-3	Transparent viscous liquid
Thesit	9002-92-0	Clear oily liquid
Triton X-100	9002-93-1	Liquid
α -ketoglutaric acid	328-50-7	White Powder
cholic acid	81-25-4	White Powder
Potassium iodide	7681-11-0	White Powder
D-Mannitol	69-65-8	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
Peroxidase	1.11.1.7	Reddish-brown powder
Sarcosine oxidase	1.5.3.1	Yellow powder
Inositol	87-89-8	White Powder
Creatininase	3.5.2.10	White powder
Creatinase	3.5.3.3	White powder
Hexokinase	2.7.1.1	White powder
Potassium sodium tartrate $\cdot 4H_2O$	6381-59-5	White powder
Polyoxyethylene(23) lauryl ether	9002-92-0	Transparent oily liquid
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Polyvinylpyrrolidone	9003-39-8	White powder
Ascorbase	1.10.3.3	Light blue powder
Magnesium sulfate	7487-88-9	White powder
Sodium chloride	7647-14-5	White powder
Urease	3.5.1.5	White powder
Citrate	77-92-9	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder
Bovine Serum Albumin	9048-46-8	White powder
Dextran 40000	9004-54-0	White powder

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Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Sodium hydroxide	1310-73-2	White powder
Adenosine triphosphate (ATP)	51963-61-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Sodium carbonate	497-19-8	White powder
Copper sulfate pentahydrate	7758-99-8	Blue solid
Bromocresol green	76-60-8	Yellow solid
Potassium ferrocyanide	13943-58-3	Yellow crystal
Ethylenediaminetetraacetic acid	60-00-4	White powder
Sucrose	57-50-1	White powder
Sodium bicarbonate	144-55-8	White powder
Zinc Sulfate Heptahydrate	7446-20-0	White solid
Magnesium chloride hexahydrate	7791-18-6	White powder
4-Nitrophenylphosphoric acid bis(trimethylolvanamide) salt hydrate	68189-42-4	Solid
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder

15. Comprehensive Profile (24)

Material Name	CAS No.	Character
2,4,6-Tribromo-3-hydroxybenzoic acid	14348-40-4	White crystal
2-Chloro-4-nitrophenol maltodioside	---	Yellowish powder
3 α -Hydroxysteroid dehydrogenase	9028-56-2	Solid
4-Aminoantipyrine hydrochloride	22198-72-7	Yellowish powder
8-Hydroxyquinoline-5-sulfonic acid	207386-92-3	White solid
ADP potassium salt	72696-48-1	White Powder
AMP	61-19-8	White Powder
AP5A	75522-97-3	White Powder
ATP Na salt	34369-07-8	White Powder
D-trehalose	6138-23-4	White Powder
D-glucose	50-99-7	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
D-sorbitol	50-70-4	Yellow liquid
EGTA	67-42-5	White Powder
L-r-Glutamyl-3-carboxy-4-nitroaniline	63699-78-5	Yellowish powder
L-Alanine	56-41-7	White Powder
L-Aspartic acid	56-84-8	White Powder
NADH	58-68-4	White Powder
NADP Sodium salt	53-59-8	White Powder
NAD sodium salt	20111-18-6	White solid
N-Tris(hydroxymethyl)methyl-3-	29915-38-6	White Powder

aminopropanesulfonic acid		
N-Acetyl-L-cysteine	616-91-1	White Powder
Polyethylene glycol	25322-68-3	Transparent viscous liquid
Thesit	9002-92-0	Clear oily liquid
Triton X-100	9002-93-1	Liquid
α -D-Glucose-1,6-diphosphate tetrakis(cyclohexylammonium) salt hydrate	71662-13-0	White powder
α -ketoglutaric acid	328-50-7	White Powder
β -Phosphoglucose mutase	5.4.2.6	White powder
Sodium oxalate	565-73-1	White powder
Cholesterol dehydrogenase	9035-82-9	White Powder
Cholesterol esterase	3.1.1.13	White Powder
Bilirubin oxidase	1.3.3.5	White Powder
cholic acid	81-25-4	White Powder
Sodium cholate	361-09-1	White Powder
Potassium iodide	7681-11-0	White Powder
Iodonitrotetrazolium chloride blue	146-68-9	Yellow powder
Adenosine diphosphate	58-64-0	White powder
Glycylglycine	556-50-3	White Powder
D-Mannitol	69-65-8	White powder
Glycerol-3-phosphate dehydrogenase	9046-28-0	Yellow powder
Glycerol kinase	2.7.1.30	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
Peroxidase	1.11.1.7	Reddish-brown powder
NADPH	2646-71-1	White Powder
Diaphorase(enzyme)	1.6.5.2	Yellowish powder
Sarcosine oxidase	1.5.3.1	Yellow powder
Inositol	87-89-8	White Powder
Creatininase	3.5.2.10	White powder
Creatinase	3.5.3.3	White powder
Hexokinase	2.7.1.1	White powder
Potassium sodium tartrate $\cdot 4H_2O$	6381-59-5	White powder
Polyoxyethylene(23) lauryl ether	9002-92-0	Transparent oily liquid
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Polyvinylpyrrolidone	9003-39-8	White powder
Ascorbase	1.10.3.3	Light blue powder
Potassium dihydrogen phosphate	7778-77-0	White powder
Creatine phosphate	922-32-7	White solid
Dipotassium hydrogen phosphate	7758-11-4	White crystal
Phosphoenolpyruvic acid	4265-07-0	White powder

Phosphoenolpyruvate carboxylase	9067-77-0	White powder
Magnesium sulfate	7487-88-9	White powder
Magnesium chloride hexahydrate	7791-18-6	White powder
Potassium chloride	7447-40-7	White powder
Lithium chloride	7447-41-8	White solid
Sodium chloride	7647-14-5	White powder
Morpholineethanesulfonic acid (MSA)	4432-31-9	White powder
Maltose	6363-53-7	Powder
Maltose phosphorylase	2.4.1.8	White powder
Imidazole	288-32-4	White powder
Urease	3.5.1.5	White powder
Citrate	77-92-9	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder
Bovine Serum Albumin	9048-46-8	White powder
Arsenazo III	1668-00-4	Purple brown powder
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
Orthoboric acid	10043-35-3	White powder
Malate dehydrogenase	1.1.1.37	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Sodium hydroxide	1310-73-2	White powder
Adenosine triphosphate (ATP)	51963-61-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Sodium carbonate	497-19-8	White powder
Copper sulfate pentahydrate	7758-99-8	Blue solid
Bromocresol green	76-60-8	Yellow solid
Potassium ferrocyanide	13943-58-3	Yellow crystal
Oxidative coenzyme I	53-84-9	White powder
Thionicotinamide adenine dinucleotide	4090-29-3	Solid
Ethylenediaminetetraacetic acid	60-00-4	White powder
Calcium acetate monohydrate	5743-26-0	White powder
Magnesium acetate tetrahydrate	16674-78-5	White powder
Sucrose	57-50-1	White powder
Lipoprotein lipase	3.1.1.34	White powder
Sodium bicarbonate	144-55-8	White powder
Zinc Sulfate Heptahydrate	7446-20-0	White solid
Magnesium chloride hexahydrate	7791-18-6	White powder
Sucrose	57-50-1	White powder
D-trehalose	6138-23-4	White Powder

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4-Nitrophenylphosphoric acid bis(trimethylolvanamide) salt hydrate	68189-42-4	Solid
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder

16. Triple Tests Profile(3)

Material Name	CAS No.	Character
2,4,6-Tribromo-3-hydroxybenzoic acid	14348-40-4	White crystal
2-Chloro-4-nitrophenol maltodioside	---	Yellowish powder
4-Aminoantipyrine hydrochloride	22198-72-7	Yellowish powder
8-Hydroxyquinoline-5-sulfonic acid	207386-92-3	White solid
ADP potassium salt	72696-48-1	White Powder
AMP	61-19-8	White Powder
AP5A	75522-97-3	White Powder
D-trehalose	6138-23-4	White Powder
D-glucose	50-99-7	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
D-sorbitol	50-70-4	Yellow liquid
L-Alanine	56-41-7	White Powder
NADH	58-68-4	White Powder
NADP Sodium salt	53-59-8	White Powder
NAD sodium salt	20111-18-6	White solid
N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid	29915-38-6	White Powder
N-Acetyl-L-cysteine	616-91-1	White Powder
Polyethylene glycol	25322-68-3	Transparent viscous liquid
Thesit	9002-92-0	Clear oily liquid
Triton X-100	9002-93-1	Liquid
α -D-Glucose-1,6-diphosphate tetrakis(cyclohexylammonium) salt hydrate	71662-13-0	White powder
α -ketoglutaric acid	328-50-7	White Powder
β -Phosphoglucose mutase	5.4.2.6	White powder
Cholesterol dehydrogenase	9035-82-9	White Powder
Cholesterol esterase	3.1.1.13	White Powder
Bilirubin oxidase	1.3.3.5	White Powder
cholic acid	81-25-4	White Powder
Sodium cholate	361-09-1	White Powder
Potassium iodide	7681-11-0	White Powder
Adenosine diphosphate	58-64-0	White powder
D-Mannitol	69-65-8	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
Peroxidase	1.11.1.7	Reddish-brown powder

Sarcosine oxidase	1.5.3.1	Yellow powder
Inositol	87-89-8	White Powder
Creatininase	3.5.2.10	White powder
Creatinase	3.5.3.3	White powder
Hexokinase	2.7.1.1	White powder
Potassium sodium tartrate $\cdot 4H_2O$	6381-59-5	White powder
Polyoxyethylene(23) lauryl ether	9002-92-0	Transparent oily liquid
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Polyvinylpyrrolidone	9003-39-8	White powder
Ascorbase	1.10.3.3	Light blue powder
Creatine phosphate	922-32-7	White solid
Magnesium sulfate	7487-88-9	White powder
Magnesium chloride hexahydrate	7791-18-6	White powder
Potassium chloride	7447-40-7	White powder
Lithium chloride	7447-41-8	White solid
Sodium chloride	7647-14-5	White powder
Morpholineethanesulfonic acid (MSA)	4432-31-9	White powder
Maltose	6363-53-7	Powder
Maltose phosphorylase	2.4.1.8	White powder
Imidazole	288-32-4	White powder
Urease	3.5.1.5	White powder
Citrate	77-92-9	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder
Bovine Serum Albumin	9048-46-8	White powder
Arsenazo III	1668-00-4	Purple brown powder
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
Orthoboric acid	10043-35-3	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Sodium hydroxide	1310-73-2	White powder
Adenosine triphosphate (ATP)	51963-61-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Sodium carbonate	497-19-8	White powder
Copper sulfate pentahydrate	7758-99-8	Blue solid
Bromocresol green	76-60-8	Yellow solid
Potassium ferrocyanide	13943-58-3	Yellow crystal
Oxidative coenzyme I	53-84-9	White powder
Ethylenediaminetetraacetic acid	60-00-4	White powder

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Calcium acetate monohydrate	5743-26-0	White powder
Magnesium acetate tetrahydrate	16674-78-5	White powder
Sucrose	57-50-1	White powder
Sodium bicarbonate	144-55-8	White powder
Zinc Sulfate Heptahydrate	7446-20-0	White solid
4-Nitrophenylphosphoric acid bis(trimethylolvanamide) salt hydrate	68189-42-4	Solid
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder

17. Equine Profile

Material Name	CAS No.	Character
2,4,6-Tribromo-3-hydroxybenzoic acid	14348-40-4	White crystal
4-Aminoantipyrine hydrochloride	22198-72-7	Yellowish powder
4-Nitrophenylphosphoric acid bis(trimethylolvanamide) salt hydrate	68189-42-4	Solid
8-Hydroxyquinoline-5-sulfonic acid	207386-92-3	White solid
ADP potassium salt	72696-48-1	White Powder
AMP	61-19-8	White Powder
AP5A	75522-97-3	White Powder
D-trehalose	6138-23-4	White Powder
D-glucose	50-99-7	White Powder
D-Lactate dehydrogenase	1.1.1.28	Yellow suspension
EGTA	67-42-5	White Powder
L-r-Glutamyl-3-carboxy-4-nitroaniline	63699-78-5	Yellowish powder
L-Aspartic acid	56-84-8	White Powder
NADH	58-68-4	White Powder
NADP Sodium salt	53-59-8	White Powder
N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid	29915-38-6	White Powder
N-Acetyl-L-cysteine	616-91-1	White Powder
Polyethylene glycol	25322-68-3	Transparent viscous liquid
Thesit	9002-92-0	Clear oily liquid
Triton X-100	9002-93-1	Liquid
α -ketoglutaric acid	328-50-7	White Powder
β -Galactosidase	3.2.1.23	Yellow powder
Pyruvate kinase (PK)	2.7.1.40	White powder
Sodium oxalate	565-73-1	White powder
Bilirubin oxidase	1.3.3.5	White Powder
cholic acid	81-25-4	White Powder
Sodium cholate	361-09-1	White Powder
Potassium iodide	7681-11-0	White Powder
Adenosine diphosphate	58-64-0	White powder

Glycylglycine	556-50-3	White Powder
D-Mannitol	69-65-8	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
Peroxidase	1.11.1.7	Reddish-brown powder
Sarcosine oxidase	1.5.3.1	Yellow powder
Inositol	87-89-8	White Powder
Creatininase	3.5.2.10	White powder
Creatinase	3.5.3.3	White powder
Hexokinase	2.7.1.1	White powder
Potassium sodium tartrate •4H ₂ O	6381-59-5	White powder
Polyoxyethylene(23) lauryl ether	9002-92-0	Transparent oily liquid
Polyethylene glycol 3350	25322-68-3	Transparent viscous liquid
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
Polyvinylpyrrolidone	9003-39-8	White powder
Ascorbase	1.10.3.3	Light blue powder
o-Nitrophenyl β-D-galactopyranoside	369-07-3	White solid
Creatine phosphate	922-32-7	White solid
Phosphoenolpyruvic acid	4265-07-0	White powder
Phosphoenolpyruvate carboxylase	9067-77-0	White powder
Magnesium sulfate	7487-88-9	White powder
Magnesium chloride hexahydrate	7791-18-6	White powder
Potassium chloride	7447-40-7	White powder
Manganese chloride (MnCl ₂)	7773-01-5	Pink powder
Sodium chloride	7647-14-5	White powder
Imidazole	288-32-4	White powder
Urease	3.5.1.5	White powder
Citrate	77-92-9	White powder
Trisodium citrate dihydrate compound	114456-61-0	White powder
Bovine Serum Albumin	9048-46-8	White powder
Arsenazo III	1668-00-4	Purple brown powder
Piperazine-N,N-bis(2-ethanesulfonic acid)	5625-37-6	White powder
Orthoboric acid	10043-35-3	White powder
Malate dehydrogenase	1.1.1.37	White powder
Dextran 10000	9004-54-0	White powder
Dextran 40000	9004-54-0	White powder
Glucose-6-phosphate dehydrogenase	1.1.1.49	White powder
Zinc Sulfate Heptahydrate	7446-20-0	White solid
Sodium hydroxide	1310-73-2	White powder
Adenosine triphosphate (ATP)	51963-61-2	White powder
Trometamol	77-86-1	White powder
Starch soluble	9005-84-9	White solid
Sodium carbonate	497-19-8	White powder
Sodium bicarbonate	144-55-8	White powder

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Lithium hydroxide anhydrous	1310-65-2	White solid
Copper sulfate pentahydrate	7758-99-8	Blue solid
Bromocresol green	76-60-8	Yellow solid
Cryptofix 221	31364-42-8	Liquid
Potassium ferrocyanide	13943-58-3	Yellow crystal
Ethylenediaminetetraacetic acid	60-00-4	White powder
Magnesium acetate tetrahydrate	16674-78-5	White powder
Sucrose	57-50-1	White powder

18. Ammonia Test Profile

Material Name	CAS No.	Character
D-trehalose	6138-23-4	White Powder
Sucrose	57-50-1	White powder
Dextran 40000	9004-54-0	White powder
Bovine Serum Albumin	9048-46-8	White powder
Glutamate dehydrogenase	1.4.1.3	White Powder
NADH	58-68-4	White Powder
Adenosine diphosphate	58-64-0	White powder
Potassium dihydrogen phosphate	7778-77-0	White powder
Disodium hydrogenortho phosphate	7558-79-4	White powder
α -ketoglutaric acid	328-50-7	White Powder

19. TBA Profile

Material Name	CAS No.	Character
N-Tris(hydroxymethyl)methyl-3-aminopropanesulfonic acid	29915-38-6	White Powder
Thionicotinamide adenine dinucleotide	4090-29-3	Solid
D-trehalose	6138-23-4	White Powder
Polyethylene glycol 8000	25322-68-3	Transparent viscous liquid
NADPH	2646-71-1	White Powder
3 α -Hydroxysteroid dehydrogenase	9028-56-2	Solid

4. First Aid Measures

Description of first aid measure:

In case of eye contact:	Flush eyes with copious amounts of water for a minimum of 15 minutes
In case of inhalation:	Allow the victim to rest in a well-ventilated area. Seek immediate medical attention
In case of skin contact:	Flush exposed skin with copious amounts of water for a minimum of 15 minutes
In case of ingestion:	Contact a physician in case of ingestion

Most important symptoms and effects, both acute and delayed.

For symptoms and effects caused by the contained substances see chap. 11.

Indication of any immediate medical attention and special treatment needed.

Follow doctor's orders.

5. Fire-Fighting Measures

No flammable properties are associated with this product.

Extinguishing media:	Use water spray, dry chemical or carbon dioxide
Special protective equipment for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary
Hazardous combustion products:	May result in the formation of nitrogen and carbon oxides
Additional information:	Combustion of the plastic rotor containing this preparation may result in toxic particulates and gases.

6. Accidental Release Measures

Personal Precautions:

Eye Protection	Wear safety goggles or a face shield when cleaning up spills
Skin Protection	Wear protective attire that prevents contamination of skin and personal clothing
Hand Protection	Wear nitrile or vinyl gloves that cover exposed skin
Other Protections	Avoid breathing mists, dusts, and aerosols

Clean-up Measures:

Contain the material to prevent it from becoming airborne
Place absorbent material on top of, and around the perimeter of the spill

Sweep up the spilled material and decontaminate the area with soap and water or an equivalent cleaner

Environmental Precautions:

Prevent spilled product from entering drains

7. Handling and Storage

This product is to be stored inside its packaging at 2-8°C in a cool, dry location. Wear gloves when handling the product and wash hands after removing gloves.

8. Exposure Controls and Personal Protection

Engineering Controls:	Provide ventilation in work areas where this product is handled.
Respiratory Protection:	Under normal conditions. No respiratory protection is required of the use of this product.
Hand Protection:	Impervious gloves recommended
Eye Protection:	Safety glasses or goggles recommended
Skin Protection:	Laboratory coat or appropriate clothing recommended

9. Chemical and Physical Properties

Physical state:	Solid. Spherical lyophilized beads are enclosed in a sealed plastic package
Color:	Multi-colored beads
Odor:	Odorless
Odor threshold:	None established
Chemical Properties:	None available for: <ul style="list-style-type: none">● pH, Melting point● Boiling point● Flash point● Lower Explosive Limit● Upper Explosive Limit● Vapor pressure● Vapor density (air=1)● Density (g/cm³)● Water solubility (20°C in g/l)● Auto ignition temperature

10. Stability and Reactivity

Reactivity:	This preparation is not known to be reactive violently
Chemical Stability:	This preparation is known to be chemically stable

Conditions to Avoid:	Sunlight, heat (temperatures above 32°C)
Incompatible Materials:	No data available
Hazardous Decomposition Products:	No harmful decomposition products known
Storage Conditions:	Store in a cool (2-8°C), dry location

11. Toxicological Information

Toxicity Data	N/A
Potential Effects of Acute Exposure	May cause irritation of the nose, throat, skin, and eyes.
Potential Effects of Chronic Exposure	Long-term exposure may result in liver toxic.
Symptoms of Overexposure	Chronic overexposure may produce effects similar to acute exposure.
Carcinogenicity	This product does not contain a reportable concentration($\geq 0.1\%$) of any ingredient listed as carcinogen by 67/548/EEC Annex I.

12. Ecological Information

No information found. This preparation is very soluble in water, and is not anticipated to present adverse ecotoxicological effects.

13. Disposal Considerations

Waste Treatment Methods:	Check regional waste requirements
Waste Treatment Options:	Treatment options approved by local authorities
Sewage Disposal Options:	Check with local authorities before discharge to the sewer
Other Disposal Recommendations	Dispose of according to local, state, and national regulatory requirements

14. Transport Information

Follow federal and local regulations.

Transportation of this product not regulated according to the definition of hazardous in 49CFR(US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

15. Regulatory Information

SARA 313	No compounds listed.
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CERCLA RG's,40 CFR 302.4	No compounds listed.
California Proposition 65	No compounds listed.
Massachusetts MSL	No compounds listed.
New Jersey Dept. of Health RTK List	No compounds listed.
Pennsylvania RTK	No compounds listed.

EU Labeling Classification Xi



R36/37/38 Irritating to eyes and skin

16. Other Information

The above information is believed to be correct but does not purport to be inclusive and shall be used only as a guide. MNCHIP makes no warranty or representation as to its accuracy or validity. Users should consider these data only as supplement to other information gathered by them and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of these materials and for the safety and health of employees and customers.

If for internal purposes only, unlimited paper copies of this MSDS are permitted.