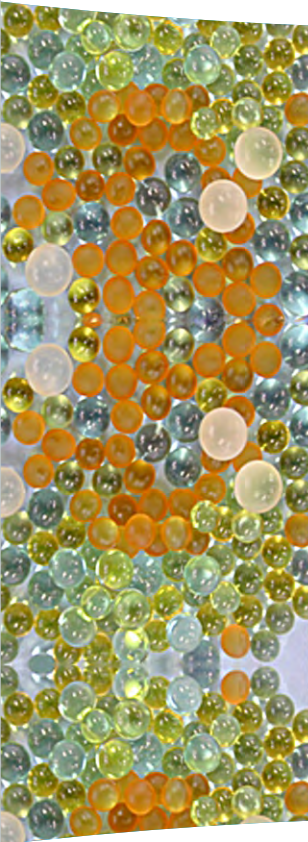


UMANG  
*encapsulation solutions*

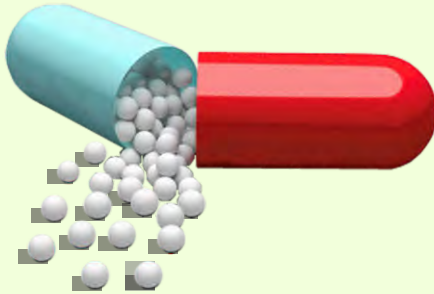


**ENCAPSULATION**

**Innovative Pharmaceutical Delivery Systems - 2015**



Our Brands



Herbal Pellets



Vitamin Pellets



Transdermal Patches



Probiotics Pellets



Oral Thin Strips



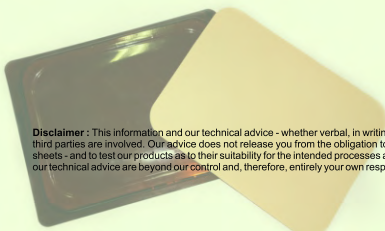
Neutral Pellets



Pharmaceutical Pellets



Neutral Pellets



**Disclaimer:** This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products also their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

# TECHNOLOGY TRANSFER

**YOUR BRAND**



**MICRO PELLETS**



**FILMS**

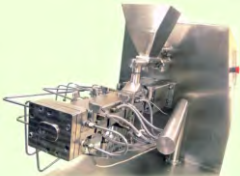


**PATCHES**



**OUR TECHNOLOGY**

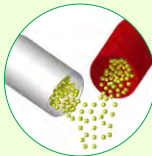
**OUR INNOVATION**



**HOTMELT**



**GRANULES**



**PELLETS**



**YOUR PRODUCT**

**Disclaimer :** This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

# VITAMINS PELLETS



sr.no	Product Description	Capsule size / Fill Wt	Use
1	Iron 100 mg, Zinc sulphate 61.8 mg, Folic acid 0.5 mg	size "2" Fill wt 330mg	Supplement
2	Carbonyl iron100mg, Vit C 75mg Folic 1.5mg, Zinc sulphate 61.8mg, Vit B12 15mcg, Selenium dioxide 65 mcg, Vitamin E 15IU	size "0" Fill wt 600mg	Supplement CVS, Memory strength, Thyro care
3	Carbonyl iron100mg, Vit C 75mg Folic 1.5mg, Zinc sulphate 61.8mg, Vit B12 15mcg, Selenium dioxide 65 mcg, Vitamin E 15IU	size "0" Fill wt 600mg	Supplement
4	Lycopine(6%) 2000mcg, Vit A 2500IU, VIE 10IU,ViC 50mg,Zinc sulphate 24.45mg, Selenium 10mcg Beta carotene 10mg, Vitamin E 20mg, Vitamin A5000 iu, Vitamin B1 2mg, Vitamin B2 3mg, Thiamine B6 1mg, Vitamin B12 5 mcg, Folic Acid 0.3mg,	size "0" Fill wt 600mg	Supplement, Eye care, Diabetic nutrition, CVS
5	Ferrous fumarate 50 mg, zinc sulphate 10mg, copper sulphate 1 mg, Manganese sulphate 1 mg, potassium iodide 0.13 mg, niacinamide 20mg, dcp 150 mg	size "0" Fill wt 600mg	Supplement, Eye care, Diabetic nutrition, CVS
6	Mecobalamin 1500 mcg, Alpha lipoic acid 100 mg, thiamin mono 10 mg, pyridoxine hcl 3 mg, Folic acid - 1.5 mg	size "0" Fill wt 600mg	Diabetic nutrition, Women's health, Eye care
7	Ferrous fumarate 200mg, folic acid 1.5 mg, cynocobalamin 15 mcg, zinc sulphate 61.8 mg	size "1" Fill wt 440mg	Supplement, Eyecare, Pregnancy nutn
8	Vitamin A 5000 IU, Vitamin E 15 mg, Ascorbic acid 50 mg, Zinc sulphate 7.5 mg, copper sulphate 1 mg, Lycopin 10 % 5000 mg, Manganese sulphate 1.5 mg, Beta carotene(as 10% dispersion) 10 mg, Selenium dioxide 150 mcg	size "0" Fill wt 600mg	Antioxidant, CVS, Eye care
9	Lycopene 6 % 3000 mcg, Methyl cobalamin 500 mcg, Vitamin A 2500 iu, vitamin C 50 mg, vitamin E 10iu , selenium dioxide 70 mcg, zinc sulphate 27 45 mg	size 1 Filling weight 440 mg	Antioxidant, CVS, Eye care, Diabetic nutrition
10	Spirulina 150mg, beta carotins (as 10% dispersion) 10mg,Vitamin A 2500 IU, Vitamin E 10mg, Thiamine mononitrate 1mg, Riboflavin 1.5mg, pyridoxin hcl 1mg, folic acid 0.15mg, niacinamide 15mg, calcium pantothenate 5 mg, potassium sulphate 2mg, copper sulphate 0.5mg, manganese sulphate 0.5mg,magnesium sulphate 3 mg, zinc sulphate 20 mg	size "0" Fill wt 600mg	Vit B Supplement, Dietary nutrition Diabetic nutrition, Women's health
11	Fes(4) (IR Pellets) 150mg, Folic acid 1.5mg/Vit C 75mg, Vit B6 1.5mg, Vit B12 15mcg	size "0" Fill wt 600mg	Iron Supplement, CVS
12	Zinc sulphate 61.8mg,Vit B12 10.0mcg, B1 10.0mg, B6 2.0mg, Niacinamide 75mg, Calcium Pantothenate 25.0mg, Vitamin C 75mg	size "0" Fill wt 540mg	Diabetic nutrition, Women's health, Weight loss management, eyes/kidn
13	Carbonyl Iron 100 mg, Folic acid 1.5 mg, Zinc 40 mg, Vit B6 1.5 mg, Vitamin C 75mg, B12 - 15 mcg	size "0" Fill wt 600mg	Iron Supplement, CVS, Diabetic nutrition
14	Ferrous ascorbate 60 mg, Methylcobalamin 500 mcg, folic acid 1.5 mg, Decosahexenoic acid (DHA) 100 mg	size "0" Fill wt 540mg	Iron Supplement, Diabetic nutrition,
15	L-Leucine 18.3mg, L-isoLeucine 5.9mg, L-Lysine HCL 25.4mg, L-Phenylalanine 5.0mg L-Threonine 8.3mg L-Valine 6.7mg, L-Typtophan 10.1mg,L-Methionine 18.4mg, L-Glutamic acid -50mg, L-Arginine - 13.28mg L-Biotin - 10mcg, Vit A- 2500 IU, D3 - 200 IU, Vit E - 7.5 IU, C - 37.5 mg, B1 - 5mg, B2 - 3mg, B6 - 1.5mg, Niacinamide - 25mg, Folic acid - 0.5mg, CDP - 5mg, 5 hydroxy oxteroin acid -02 mg	size "0" Fill wt 600mg	Amino-acid supplement, Athletic health, Diabetic nutrition, Geriatric Supplement
16	Alpha Lipoic acid 100mg, Vit B1 10mg, Vitamin B6 3mg,Methyl cobalamin 1500mcg, Folic acid 1.5mg, Chromium Picolinate 60.0mcg, Selenium 60.0 mg,Biotin 100mcg, Inositol 2.0mg, Zinc sulphate 15mg	size "0" Fill wt 600mg	Diabetic nutrition, Women's health, Memory strength
17	Lutlin 3.2mg , Beta Carotene Natural 6000 IU, Vit E acetate 50 IU, Vit C 150mg Copper as Cupric oxide 2mg , MN as MNCL 5mg , Selenium as selenius acid 40mg , Zn as ZNO 40mg	size 1 Filling weight 600 mg	Eye care, Joint care
18	Lactobacillus sporogenes 1000 Lakhs, Vit B1 10mg,B2 10mg, Folic acid 1500mcg, Vit B12 15mcg,Niacinamide 100mg,Calcium pantothenate 20mg, vitamin B6 3mg, vitamin C 75mg	size 1 Filling weight 600 mg	Gut health, Vit B supplement
19	Vit A acetate 2000IU, Vit B1 1mg, Vit B2 1mg, Vit B6, 1.34mg, Vit B12 1mcg, Vit C 33.3mg,Vit D3 270IU, Calcium Pantothenate 1mg,Niacinamide 8mg, Dibasic calcium phosphate 350mg,iron from Ferrous Fumarate 5mg,Copper'seize "0" capsule from coppersulphate 0.01mg, Magnesium from Magnesium Oxide 1mg, Manganese from Manganese sulphate 0.01mg, Potassium from sulphate zinc from zinc sulphate 0.15 mg, Selenium from sodium sulphate	size "0" capsule	Nutritional supplement
20	L-Lysine-18.5 mg, L-Isoleucine-14.30 mg, L-Lysine HCl-31.5 mg, L-Valine -6.7 mg, L-Phenylalanine-5 mg, L-Methionine-18.4mg, L-Threonine-4.2 mg L-Tryptophan - 5.0 mg, Vitamin A 2500 IU, Vitamin B1 - 5mg, Vitamin B2-3 mg, Niacinamide - 25mg, Vitamin B6 -1.5mg,CDP - 5mg, Folic acid - 250mg, Vitamin B12 -2.5mg, Vitamin D3 - 200 IU, Zinc sulphate - 10.96mg, L-Arginine -13.3mg, L-Aspartic acid - 3.13mg, L-Cysteine - 1.07mg, L-Alanine - 1.54mg, L-Glutamic acid - 4.98mg,L-Glycine, e - 5.8mg, L-Histidine - 6.3mg, L-Proline - 1.26mg,L-Serine -1.19mg, L-Tyrosine - 84mg Vitamin C - 50mg, Vitamin E 7.5IU	size "0" Fill wt 500mg	Amino acid supplements, CVS, Bone strength, Thyro care
21	Vitamin C - 500 mg	size "0"	Supplement
22	Size 0L-Carnitine 250 mg, Co-Enzyme Q10 - 10mg, Vitamin E - 100 IU, Magnesium - 100 mg	size "0"	Diabetic nutrition, CVS, Eye care,
23	Co-enzyme Q - 10 - 100 mg pellets	size "0"	Supplement, Diabetic nutrition, CVS, Hapast probactant, Diabetic nutrition
24	Silimarin 140 mg pellets	size "0"	Supplement

**Disclaimer :** This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

# PROBIOTICS PELLETS

sr.no	Product Description	Capsule size/ Fil Wt	Use
25	Ferrous Fumarate 150mg, L-Histadine 4.0mg, L-Lysine 25.0mg, Glycine 10.0mg, Vit B1 5.0mg, B6 1.5mg, B12 2.5mg, Folic acid 0.5mg Vit C 40.0 mg, Zinc 50.0mg	size "0" capsule	Iron supplement, Male health
26	Ferrous Fumarate 300 mg, Calcium panthoante 10mg, Folic acid - 1 mg, B12 - 10 mcg, Vit C - 75 mg	size "0" Fill wt 600mg	Iron supplement, Eye care
27	Liferous ascorbate - 30 mg, Folic acid 1.5mg, Methyl Cobalamin - 500 mcg		
28	a. MethylCobalamin 500 mcg, b. L-Lucioine-18.3 mg, c. L-Isoleucine-5.9 mg, d. L-Lysine Hcl-25.4 mg, e. L-Phenylalanine-6 mg, f. L-Threonine-8.3 mg, g. L-Valine-6.7 mg, h. L-Tryptophan-10.1 mg, i. L-Methionine-18.4mg, j. L-glutamic Acid-50 mg, k. L-Arginine-13.28 mg, l. Biotin-10.10 mg m. Vitamin A(Acetate) 2500 IU, n. Vitamin D3 -200iu, o. Vitamin E (as Acetate) 7.5 iu, p. Ascorbic Acid-37.5 mg, q. Thiamine monohydrate-5 mg r. Riboflavine-3 mg, s. Pyridoxine hcl-1.5 mg, t. Niacinamide-25 mg, u. Folic acid -0.5 mg, v. Caloum pantothenate-5 mg, w. 5 hydroxy antralnic acid .02 mg, x. Zinc 4 mg, y. L-Histadine - 10 mg, z. selenium - 70 mcg	size "0" Fill wt 500mg	Amino acid Supplements
29	a. Sodium Feredate 231mg (Eq to Elemental iron 33mg), b. Folic acid 1.5 mg, c. Zinc Sulphate 50mg, d. L-Glysin 10mg, e. L-Histadn Hcl 4mg, f. L-Lysine Hcl 25mg, g. Thiamin Hcl 5mg, h. Ribofavin Sodium Phosphate 3mg, i. Pyridoxine Hcl 1.5mg, j. Nicotinamide 2.5mg, k. Cyanocobalamin1% 1.5mg, l. Copper sulphate Penta Hydrate 2.5mg, m. Manganese Sulphate Mono Hydrate 2.5mg, n. Selenium (20mcg) As selenium di oxide 0.02mg	size "0" Fill wt 500mg	Amino acid-B complex supplements, CVS, Joint car
30	Lycopene 5000 mcg + Vitamin C (coated) 75 mg + Green tea 50 mg + Vitamin E 15 mg + Vitamin A (acetate) 5000 iu +Zinc Sulphate 7.5 mg + Betacarotene 5 mg + Manganese Sulphate 1.5 mg +Copper Sulphate 1 mg + Selenium Dioxide 150 mcg + Excipient q.s.	size "0"	Supplement, CVS, Diabetic nutrition, Eye care,
31	Ferrous Sulphate 150mg + Folic Acid 0.5mg + Zinc Sulphate Mono 61.8mg		
32	Zinc Sulphate 61.8mg + Folic Acid 0.5mg		
33	Ferrous Sulphate 150mg + Folic Acid 0.5mg		

# PROBIOTICS LIST

sr.no	Product Description	Capsule size/ Fil Wt	Use
1	Fructo oligosaccharides 25mg+ Probiotic [ L-Acidophilus+ B.Longum+ B.infantis+ Bifidum+ Zinc sulfate 5mg]	Each 5 ml contains (No of serving 6) (Total 3 Gms)	Nutritional supplement Gut (digestive system) health
2	Lactobacillus Sporogenes 60ml + Streptococcus faecalis 30 ml + Clostridium butyricum 2 ml+ Bacillus mesentericus 1 ml+ Fructo oligo saccharide 100 mg	size "2" capsule, Filling weight : 330 mg	Nutritional supplement Gut (digestive system) health
3	Saccharomyces boulardii 2.5 ml+ Lactic acid bacillus 100 ml	size "2" capsule, Filling weight : 330 mg	Nutritional supplement Gut (digestive system) health
4	Lactobacillus acidophilus 0.48 bil spores+ Lactobacillus rhamnosus 0.48 bil spores + bifidobacterium bifidum 0.48 bil spores + Saccharomyces boulardii 0.48 bil spores + Streptococcus thermophilus 0.48 bil spores + Fructo oligo saccharides 300 mg	size "2" capsule, Filling weight : 330 mg	Nutritional supplement Gut (digestive system) health
5	Lactobacillus acidophilus 350 ml+ Lactobacillus rhamnosus 200 ml+ Lactobacillus casei 150 ml+ Lactobacillus plantarum 150 ml+ Lactobacillus bulgaricus 150 ml+ Bifidobacterium longum 150 ml+ Bifidobacterium infantis 150 ml+ Bifidobacterium breve 150 ml+ Streptococcus thermophilus 200 ml+ Saccharomyces boulardii 0.05 bil+ Fructo oligo saccharides 100 mgr Zinc 10 mg	Each 1 gm contain million spores size "2" capsule, Filling weight - 330 mg	Nutritional supplement Gut (digestive system) health
6	Lactobacillus acidophilus 2.5 billion+ Lactobacillus rhamnosus 2.5 billion+ Bifidobacterium longum 2.5 billion+ Saccharomyces boulardii 2.5 billions+ Fructo oligosaccharides 100 mg	Each 1 gms contain 2.5 million spores size "2" capsule, Filling weight : 330 mg	Nutritional supplement Gut (digestive system) health
7	Streptococcus faecalis T-110 JPC 7.5 million + Clostridium butyricum TO-A 0.5 million + Bacillus mesentericus TO-A JPC 0.25 million + Lactobacillus 20.0 million	Size "2" capsule, Filling weight - 330 mg	Nutritional supplement Gut (digestive system) health
8	Streptococcus faecalis 30 million+ Clostridium butyricum 2 million+ Bacillus mesentericus 1 million+ Lactobacillus sporogenes 50 million	Size "2" capsule, Filling weight - 330 mg	Nutritional supplement Gut (digestive system) health
9	Lactobacillus acidophilus 0.625 billion + Lactobacillus rhamnosus 0.500 billion + Bifidobacterium longum 0.200 billion + Bifidobacterium bifidum 0.050 billion + Streptococcus thermophilus 0.625 billion + Saccharomyces boulardii 2.5 billions + Fructo oligosaccharides 100 mg	Size "2" capsule, Filling weight - 330 mg	Nutritional supplement Gut (digestive system) health
10	Lactobacillus acidophilus 1.4 bil + Lactobacillus rhamnosus 0.8 bil + Bifidobacterium longum 0.6 bil + Streptococcus thermophilus 0.8 bil + Bifidobacterium infantis 0.6 bil + Lactobacillus casei 0.6 bil + Lactobacillus plantarum 0.6 bil + Lactobacillus bulgaricus 0.6 bil+ Bifidobacteri breve 0.6 bil + Fructo oligosaccharides 100 mg	Size "2" capsule, Filling weight - 330 mg	Nutritional supplement Gut (digestive system) health
11	Streptococcus Thermphilus 5 Billion + Lactobacillus Acidophilus 2.5 Billion + Bifidobacterium Longum 5 Billion + Lactobacillus Sporogenes 2.5 Billion+ Fructooligosaccharide 200 mg	Each 1 gm sachet contains	Nutritional supplement Gut (digestive system) health

**Disclaimer :** This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

# NEUTRAL PELLETS

## SPRAYSPHERES®

Ready to fill Neutral Pellets made from our equipments.

### SUGAR PELLETS

Sugar Pellets are neutral pellets made of sucrose and starch. The almost spherical cores are used as neutral basis for drug layering.

Mesh Size (ASTM)	Diameter in mm	Mesh Size (ASTM)	Diameter in mm	Mesh Size (ASTM)	Diameter in mm
SS 120 - 140 #	0.106 - 0.125	SS 40 - 50 #	0.300 - 0.425	SS 18 - 20 #	0.850 - 1.000
SS 100 - 120 #	0.125 - 0.150	SS 40 - 45 #	0.355 - 0.425	SS 16 - 20 #	0.850 - 1.180
SS 80 - 100 #	0.150 - 0.180	SS 35 - 55 #	0.355 - 0.500	SS 16 - 18 #	1.000 - 1.180
SS 70 - 80 #	0.180 - 0.212	SS 35 - 50 #	0.300 - 0.500	SS 14 - 16 #	1.180 - 1.400
SS 60 - 70 #	0.212 - 0.250	SS 35 - 45 #	0.400 - 0.450	SS 12 - 16 #	1.400 - 1.700
SS 50 - 60 #	0.250 - 0.300	SS 35 - 40 #	0.425 - 0.500	SS 12 - 14 #	1.400 - 1.700
SS 45 - 50 #	0.300 - 0.355	SS 30 - 35 #	0.500 - 0.600	SS 10 - 12 #	1.700 - 2.000
SS 45 - 60 #	0.250 - 0.355	SS 25 - 30 #	0.600 - 0.710		
SS 40 - 60 #	0.250 - 0.425	SS 20 - 25 #	0.710 - 0.850		

### STARCH PELLETS

As a spherical seed cores for drug layering & film coating. Also used in manufacture of granules / beads with sustained / controlled release, taste masking & other special properties.

Mesh Size (ASTM)	Diameter in mm	Mesh Size (ASTM)	Diameter in mm	Mesh Size (ASTM)	Diameter in mm
STS 12 - 14 #	1.400 - 1.700	STS 30 - 40 #	0.425 - 0.600	STS 80 - 100 #	0.150 - 0.180
STS 16 - 18 #	1.000 - 1.180	STS 40 - 50 #	0.300 - 0.425	STS 100 - 200 #	0.075 - 0.150
STS 18 - 20 #	0.850 - 1.000	STS 50 - 60 #	0.250 - 0.300		
STS 20 - 30 #	0.600 - 0.850	STS 60 - 80 #	0.180 - 0.250		

### MCC PELLETS

As a neutral starter core and optimal carrier for multi participate controlled release formulation by layering and coating. Highly spherical. High mechanical strength with low friability.

Grade	Particle size range (µm)	Grade	Particle size range (µm)	Grade	Particle size range (µm)
MS-100	75 - 212	MS-203	150 - 300	MS-507	500 - 710
MS-102	106 - 212	MS-305	300 - 500	MS-708	710 - 850

### CALCIUM CARBONATE PELLETS

These pellets are highly spherical particles optimized for coating and layering process to achieve reproducible product characteristic. In extended release formulation this pellets can be integrated to reduce the PH dependency of the drug release therefore achieve desired dissolution profile.

Grade	Particle size range (µm)	Grade	Particle size range (µm)	Grade	Particle size range (µm)
CS-100	75 - 212	CS-203	150 - 300	CS-507	500 - 710
CS-102	106 - 212	CS-305	300 - 500	CS-708	710 - 850

### TARTARIC ACID PELLETS

These pellets are highly spherical particles optimized for coating and layering process to achieve reproducible product characteristic. In extended release formulation this pellets can be integrated to reduce the PH dependency of the drug release therefore achieve desired dissolution profile.

Particle size range	Diameter in mm	Particle size range	Diameter in mm	Particle size range	Diameter in mm
TS 20 - 30 #	0.600 - 0.850	TS 50 - 60 #	0.250 - 0.300	TS 100 - 200 #	0.075 - 0.150
TS 30 - 40 #	0.425 - 0.600	TS 60 - 80 #	0.180 - 0.250		
TS 40 - 50 #	0.300 - 0.425	TS 80 - 100 #	0.150 - 0.180		



**Disclaimer :** This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

# NEUTRAL PELLETS

## SPRAYSPHERES®

Ready to fill Neutral Pellets made from our equipments.

### MANNITOL PELLETS

As a water soluble starter cores for drug layering and coating in the formulation of pellets system be it for immediate or sustained release.

Mesh Size (ASTM)	Diameter in mm	Mesh Size (ASTM)	Diameter in mm	Mesh Size (ASTM)	Diameter in mm
MAS 18 - 20 #	0.850 - 1.000	MAS 40 - 50 #	0.300 - 0.425	MAS 80 - 100 #	0.150 - 0.180
MAS 20 - 30 #	0.600 - 0.850	MAS 50 - 60 #	0.250 - 0.300	MAS 100 - 200 #	0.075 - 0.150
MAS 30 - 40 #	0.425 - 0.600	MAS 60 - 80 #	0.180 - 0.250		

### SILICA PELLETS

Mainly used as core for drug loading of insoluble and in stable drug. Also used in MUPS technology.

Grade	Particle size range (µm)	Grade	Particle size range (µm)	Grade	Particle size range (µm)
AS-100	75 - 212	AS-203	150 - 300	AS-507	500 - 710
AS-102	106 - 212	AS-305	300 - 500	AS-708	710 - 850

### LACTOSE PELLETS

Used as spherical seed cores for drug layering & film coating. Also used in manufacture of granules / beadlets with sustained / controlled release, taste masking & other special properties.

Mesh Size (ASTM)	Diameter in mm	Mesh Size (ASTM)	Diameter in mm	Mesh Size (ASTM)	Diameter in mm
LS 18 - 20 #	0.850 - 1.000	LS 40 - 50 #	0.300 - 0.425	LS 80 - 100 #	0.150 - 0.180
LS 20 - 30 #	0.600 - 0.850	LS 50 - 60 #	0.250 - 0.300	LS 100 - 200 #	0.075 - 0.150
LS 30 - 40 #	0.425 - 0.600	LS 60 - 80 #	0.180 - 0.250		

### LACTOSE + MCC PELLETS

Used as spherical seed cores for drug layering & film coating. Also used in manufacture of granules / beadlets with sustained / controlled release, taste masking & other special properties.

Mesh Size (ASTM)	Diameter in mm	Mesh Size (ASTM)	Diameter in mm	Mesh Size (ASTM)	Diameter in mm
LM 18 - 20 #	0.850 - 1.000	LM 40 - 50 #	0.300 - 0.425	LM 80 - 100 #	0.150 - 0.180
LM 20 - 30 #	0.600 - 0.850	LM 50 - 60 #	0.250 - 0.300	LM 100 - 200 #	0.075 - 0.150
LM 30 - 40 #	0.425 - 0.600	LM 60 - 80 #	0.180 - 0.250		

### CITRIC ACID PELLETS

Mesh Size (ASTM)	Diameter in mm	Mesh Size (ASTM)	Diameter in mm	Mesh Size (ASTM)	Diameter in mm
STS 12 - 14 #	1.400 - 1.700	STS 18 - 20 #	0.850 - 1.000	STS 30 - 40 #	0.425 - 0.600
STS 16 - 18 #	1.000 - 1.180	STS 20 - 30 #	0.600 - 0.850	STS 40 - 50 #	0.300 - 0.425



**Disclaimer :** This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

# PHARMACEUTICALS PELLETS

## SUSTAIN SPHERES™

Ready to fill Sustained Release Pellets made from our equipments.

Pharmaceuticals	Dosage	Therapeutical	EDMF
Caffeine	50%	Stimulant	✓
Chondroitin Sulphate	30 / 70%	Anti inflammatory	✓
Dried ferrous sulphate	65%	Anti- anaemic	✓
Ferrous Fumarate	50%	Haematinic	✓
Ferrous Gluconate	50%	Haematinic	✓
Fluoxetine HCl	20%	Selective Serotonin reuptake Inhibitor	✓
Gliclazide	25%	Antidiabetic	✓
Glimepiride	1%	Antidiabetic	✓
Glipizide	10%	Antidiabetic	✓
Glucosamine sulphate	65%	Dietary supplement for adult	✓
Indomethacin	25 / 27.5 / 50 / 60%	NSAID	✓
Itopride hydrochloride	60%	NSAID	✓
Ketoprofen	33 / 65%	Dietary supplement	✓
Tamsulosin HCl	0.2 / 0.11%	Alpha adrenergic blocker	✓
Tolterodine Tartrate	2.1%	Treatment of Overactive bladder	✓

## ENTERO SPHERES™

Ready to fill Enteric Coated Pellets made from our equipments.

Pharmaceuticals	Dosage	Therapeutical	EDMF
Aspirin EC micropellets (pellets for tableting)	65%	Acid Reflux, Heart Burn	✓
Dexalansoprazole	20%	Proton pump inhibitors	✓
Dexarabeprazole	8%	Proton pump inhibitors	✓
Esomeprazole Magnesium	22.5%	Proton pump inhibitors	✓
Fluoxetine	50 %	Antidepressant	✓
Lactic Acid Bacillus	60.6 %	Stomatitis, Hypochlorhydria	✓
Pancreatin	90 %	Diegitive enzyme	✓

## LAYERED PELLETS

Ready to fill Layered Pellets made from our equipments.

Pharmaceuticals	Dosage	Therapeutical	EDMF
Folic Acid	3%	Treatment of folic acid deficiency	✓
Itraconazole	22%	Antifungal agent	✓
Piroxicam	9 %	NSAID	✓

## MICRO SPHER™ (30-50#) (MUPS)

Ready to fill Micro Pellets made from our equipments.

Pharmaceuticals	Dosage	Therapeutical	EDMF
Chlorphenaramine Maleate	8%, 3.5%	Antiallergic	✓
Lansoprazole EC	8.5%,10.5%	Proton pump inhibitor	✓
Omeprazole EC	8.5%,20%,40%	Proton pump inhibitor	✓
Esomeprazole	22.5%	Proton pump inhibitor	✓

## MATRIX PELLETS

Ready to fill Matrix Pellets made from our equipments.

Pharmaceuticals	Dosage	Therapeutical	EDMF
Alpha Lipoic Acid	70%	Antioxidant	✓
Ascorbic Acid	62.5%	Vitamin C deficiency, Anti oxidant	✓
Aspirin	50%	Analgasic, Antipyretic	✓
Caffeine	50%	Stimulant	✓
Orlistat	50%	Anti obesity	✓
Simethicone	50%	Antiflatulent	✓
Vitamin D3	50%	Dietary supplement	✓

## MELT PELLETS

Ready to fill HME Pellets / Granules made from our equipments.

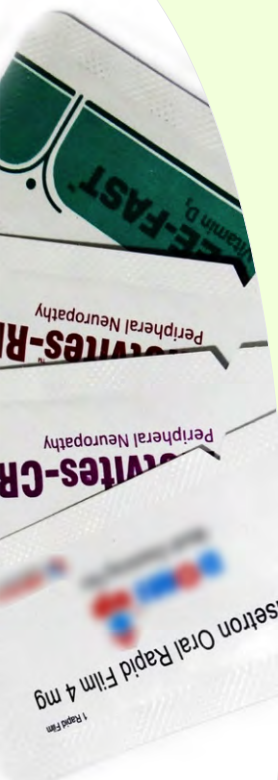
Pharmaceuticals	Dosage	Therapeutical	EDMF
Clarithromycin taste mask	80%, 27.5%,43%	Macrolide, Antibiotic	✓
Ibuprofen SR	50%	NSAID	✓
Paracetamol SR	70%	NSAID	✓

**Disclaimer :** This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

# ORAL THIN STRIPS™

## OUR BRANDS

Product	Our Brand	EDMF
Belamethasone 0.634mg	Respaa+	✓
Caffeine 40mg	Stimula+	✓
Cetirizine 40mg	Respaa+	✓
Dextromethorphan Hbr 7.5 & 15mg	Coldflu+	✓
Dicyclomine 20mg	Analgic+	✓
Diphenhydramine Hydrochloride 12.5 & 25mg	Hista+	✓
Donepezil Hcl 5 / 10 / 23mg	Dopzil+	✓
Doxazosine 4 & 8mg	Coldflu+	✓
Famotidine 10 & 20mg	Agast+	✓
Fluoride 0.5mg	Tooth+	✓
Fluoxetine 10 / 20mg	Depretine	✓
Folic Acid 1 & 5mg	Folic+	✓
Indomethacin 25 & 50mg	Analgic+	✓
Ketoprofen 25mg	Ketoprof	✓
Levocetirizine 5mg	Respaa+	✓
Loperamide 2mg	Hista+	✓
Loratidine 10mg	Respaa+	✓
Medizine HCl 25mg	Hista+	✓
Melatonin with Menthol 3mg	Analgic+	✓
Menthol & Benzocaine 3 & 3mg	Analgic+	✓
Menthol 2.5mg	Metha+	✓
Nicotine 11 & 22mg	Stimula+	✓
Ondansetron 4 & 8mg	Ondan+	✓
Paroxetine 20mg	Depretine	✓
Pergolide Mesylate 1mg	Perkins+	✓
Phenylephrine HCl & Dextromethorphan Hbr 2.5 & 5mg	Coldflu+	✓
Phenylephrine HCl & Diphenhydramine HCl 5 & 10mg	Coldflu+	✓
Phenylephrine HCl 2.5mg	Coldflu+	✓
Piroxicam 10 & 20mg	Analgic+	✓
Pseudoephedrine 10mg	Coldflu+	✓
Salbutamol Sulfate 2 & 4mg	Respaa+	✓
Sildenafil Citrate 100 & 50mg	Unigra	✓
Simethicone 62.5mg	Agast+	✓
Tadalafil 10 & 20mg	Unigra	✓
Tizanidine 2 & 4mg	Hista+	✓
Vitamin B12 1.0 Mcg (micrograms)	Vitastrips / Nutrastrips	✓
Vitamin C Supplement 25 & 40mg	Vitastrips / Nutrastrips	✓
Zinc Histidine 12mg	Vitastrips / Nutrastrips	✓
Zolpidem 10mg	Coldflu+	✓
Vitamin D 600IU	Vitastrips / Nutrastrips	✓



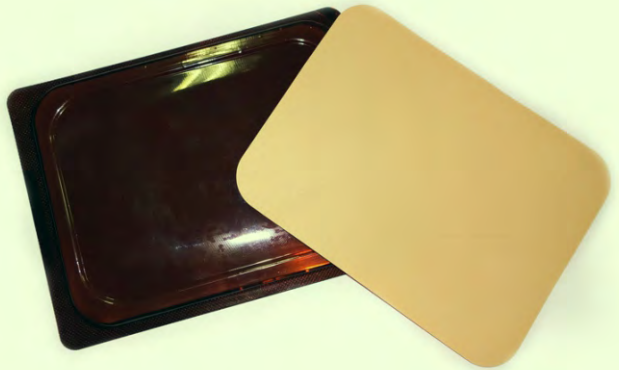
**Disclaimer :** This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

# TRANSDERMAL PATCHES

## DERMA PATCHES

### Packing Line for Transdermal Patch

Pharmaceuticals	Therapeutical	EDMF
Nicotine Patches	Used in Nicotine replacement therapy	✓
Nitroglycerin Patches	Vasodilators	✓
Diclofenac Patches	Non steroidal Anti inflammatory drugs	✓
Oxybutynin Patches	Used to treat overactive bladder	✓



**Disclaimer :** This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

# HERBAL PELLETS

Pellets	Botanical Name	Use
Capiscum Pellets 2.5%, EC		Analgesic, Anti-cancer
Azadirachta indica Pellets	Azadirachta indica	Antidiabetes, Anti-inflammatory, Anti-cancer
Aswagandha pellets 40%	Withania somnifera	Immunity, Nephrology, Anti-anxiety, Bone strength
Curcumin Pellets 70%	Curcuma longa	CVS, CNS, Antidiabetes, PCOS, Anti-inflammatory, Metabolism, Nephrology, Anti-cancer Bone strength, UTI, Respiratory health
Soya Iso Flavanes 40% pellets.		
Adhatoda Vasica 0.5% pellets.	Adhatoda Vasica	Antidiabetes, Anti-inflammatory, Respiratory health
Mamordica Charantia Pellets 1.25%	Mamordica Charantia	Antidiabetes, Respiratory health
Terminalia Arjuna Pellets 10%	Terminalia Arjuna	CVS, Anti diarrhea
Centella Asiatica Pellets 10%	Centella Asiatica	Memory strength, PCOS, Anti-anxiety
Red clover Pellet	Trifolium pratense	Expectorant, Antioxidant, Anti-inflammatory, Estrogenic
Lemon Balm Pellets	Melissa officinalis	Anti-anxiety
Devil's Claw Pellets	Harpagophytum procumbens	CVS, Anti-inflammatory, Anti-arthritis
Garlic EC Pellets	Allium Sativum	CVS, Antidiabetes, ENT, Blood circulation, Anti-inflammatory, Nephrology, Anti-cancer, Eye care, Bone strength, Thrombolytic, Respiratory health
Spirulina Thallus Pellets		
Spirulina Pellets	Spirulina Thallus	Weight management/ Antioxidant
Rosemary Pellets	Rosmarinus officinalis	Antioxidant, Memory strength, CNS, Anti-cancer, Eye care
Turmeric Pellets	Curcuma longa	CVS, CNS, Antidiabetes, PCOS, Anti-inflammatory
Amia Pellets	Embellica officinalis	Antidiabetes, Immunity, Anti-inflammatory, Eye care
Arjuna Pellets	Terminalia Arjuna	CVS, Anti diarrhea
Cinchona Pellets	Cinchona officinalis	CVS, Muscle relaxant, Anti-material
Grape seed Pellets	Vitis vinifera	Antioxidant, CVS
Black Pepper pellets	Piper nigrum	Bronchitis, Anti-cancer, Anti anxiety
Milk Thistle Pellets	Silybum marianum	Digestion, CVS, Hepatoprotectant, Anti-diabetes
Oat straw Pellets	Ginkgo biloba	CVS, Immunity
Ginkgo biloba IR Pellets	Ginkgo biloba	PCOS, Blood circulation, Immunity, Anti-cancer, Eye care
Ginger EC Pellets	Zingiber officinalis	CVS, Antidiabetes, ENT, Immunity, Anti-inflammatory, Metabolism
Cranberry Pellets	Vaccinium oxycoccos	Antioxidant, UTI
Green Coffee Pellets	Coffea arabica	Metabolism, CVS, Antidiabetes, Weight loss management
Green Tea Pellets	Camellia sinensis	CVS, CNS, Antidiabetes, PCOS, Bone strength, UTI
Papaya Pellets	Carica papaya	Nephrology, Anti-inflammatory
Olive Tree	Olea europaea	CVS, Arthritis, Anti-cancer, Anti-inflammatory, Antidiabetes
Hibiscus Pellets	H. sabdariffa	CVS, Antidiabetes,
Fenugreek Pellets	Trigonella foenum-graecum	Antidiabetes, PCOS, Anti-inflammatory, Metabolism, Eye care
Flaxseed DC Granules	Garcinia Cambogia Pellets	Anti diarrhea, CVS, Antidiabetes, Women Health
Garcinia Cambogia Pellets	L- Speciosa 0.5%	Weight Loss Management
L- Speciosa 0.5%	Methylcobalamine Pellets 2%	Anti diabetes, Weight loss management
Methylcobalamine Pellets 2%	Aloe vera	CVS, Anti depression, Anti-cancer, Memory strength
Aloe	Bacopa moneiri	CNS, Antidiabetes, Anticancer, Bone strength
Bacopa	Commiphora wightii	CVS, Memory strength, PCOS, Anti-inflammatory, Anti-cancer
Guggul	Mangifera indica	CVS, Anti-inflammatory, Blood circulation,
Mango	Tinospora cordifolia	CVS, Antidiabetes, Blood circulation, Anti-inflammatory, Bonestrength
Guduchi	Ginseng	CVS, CNS, Antidiabetes, Anti-cancer, Bone strength
Ginseng	Panax ginseng	CVS, CNS, Antidiabetes, Immunity, Anti-inflammatory, Anti-cancer
Tulsi	Occimum sanctum	Antidiabetes, PCOS, Anti-inflammatory,
Aegle marmelos	Aegle marmelos	Antidiabetes, Anti-inflammatory, Anti-cancer
Onion	A. cepa	Antidiabetes, Blood circulation, Respiratory health
Liquorice	G. glabra	Antidiabetes, PCOS, Immunity, Anti-inflammatory, Anti-cancer
Pomegranate	Punica granatum	Antidiabetes, UTI, Respiratory health
Cinnamon	C. zeylanicum	PCOS, Immunity, Metabolism, Anti-cancer, Respiratory health
Tribula Terrestris	Tribula Terrestris	CVS, PCOS, Nephrology, Weight management
Saw palmetto	Saw palmetto	PCOS, UTI
Cardamom	Elettaria cardamomum	Immunity, Metabolism, Respiratory health
Echinacea	Echinacea purpurea	Immunity, Eye Care, Respiratory health
Boswellia	Boswellia serrata	Anti-inflammatory, Anti-cancer, Anti- anxiety
Cassia fistula	Cassia fistula	Anti-inflammatory, Anti- anxiety
Carrot	P. platyloba	Anti-anxiety
Bilberry	Vaccinium myrtillus	Eye care
Marigold	Tagetes erecta	Antioxidant, Eye care
Black currant	Ribes nigrum	Antioxidant
Picrorhiza	Picrorhiza kurroa	Antidiabetes, Digestive, Hepatoprotectant
Hirta	Euphorbia hirta	Anti-diarrhoea, Anti-asthma

**Disclaimer:** This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

Umang was inception in the year 1982, with an objective to serve the clients with all kinds of equipments and accessories under one roof. Within a very short span of time, we succeeded to be the most reliable brand name in the market supplying equipments and solutions to the Pharmaceutical industry for Pelletization and granulation solutions.

In 2007, the company ventured into solutions for Personal care industry majorly focusing on Oral care products, giving encapsulated ingredients for cooling applications. In 2009, the company further integrated it self to give solutions for Bakery and food applications like Chewing gum, mouth dissolving films etc. Today the company has three major divisions : Personal care, Bakery and food ingredients, Pharmaceutical division for innovative dosage form development. Innovative products and technology is the strength of our brand giving start to end encapsulation solutions.

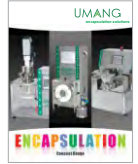
## Pelletization & Thin Film Processing



Complete engineering equipment solutions like Pelletization : Extrusion, spheronization, layering, Granulation, Fluid bed Coating, drying and Edible film line for innovative dosage form.

**Websites:**  
[www.umangpharmatech.com](http://www.umangpharmatech.com)  
[www.umangengineering.com](http://www.umangengineering.com)  
[www.extruderspheronizer.com](http://www.extruderspheronizer.com)

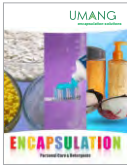
## Laboratory Concept Range



Laboratory range of equipment solutions like Pan coating, Sphericity checking, Laboratory edible film line, High shear mixers / Homogenizers, Extrusion & Spheronization, etc.

**Websites:**  
[www.concept-machines.com](http://www.concept-machines.com)  
[www.coating-machines.com](http://www.coating-machines.com)  
[www.ediblefilm.co.uk](http://www.ediblefilm.co.uk)

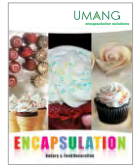
## Personal Care & Home Care Division



Encapsulation of oils, fragrance, flavors, actives, extracts, vitamins, etc. & Visual effects for all kinds of Home & personal care products, with customization as per customer needs.

**Websites:**  
[www.umangpharma.com](http://www.umangpharma.com)  
[www.cosmeticbeads.com](http://www.cosmeticbeads.com)

## Bakery & Food Decoration



Bakery decoration products like Luster/disco/ edible dust, edible glitter, Sparkling jimmies / pearls/ sugars, etc. for all kinds of Baking / Ice cream decoration needs in bulk / retail packs.

**Websites:**  
[www.umangpharma.com](http://www.umangpharma.com)  
[www.edibleglitters.com](http://www.edibleglitters.com)

## Pharmaceutical & Nutraceutical



Encapsulation solutions for Pharma industry, technology like SR, IR, Pulsed, Edible films, Neutral Pellets, Sugar, MCC, Tartaric, Lactose, Mannitol, Starch, Calcium Carbonate, etc.

**Websites:**  
[www.umangpharmaceuticals.com](http://www.umangpharmaceuticals.com)  
[www.pharmaceuticalpellets.com](http://www.pharmaceuticalpellets.com)  
[www.pharma-spheres.com](http://www.pharma-spheres.com)

## Umang Research & Development



We develop Pellets, Oral Films & Transdermal patches for customers with out-licencing of products with / without equipments.

**Websites:**  
[www.umangdrugdelivery.com](http://www.umangdrugdelivery.com)  
[www.drug-deliverytechnology.com](http://www.drug-deliverytechnology.com)

## Umang Capabilities



Encapsulation solutions for Pelletization & Thin Film Processing, Concept Range, Personal Care & Home Care Solution, Bakery & Food Decoration, Pharmaceutical & Nutraceutical, Research & Development on Films, Patches & Pellets.

**Websites:**  
[www.umangencapsulation.com](http://www.umangencapsulation.com)

**UMANG**  
encapsulation solutions

**Umang Pharmatech Pvt. Ltd.**

Survey No. 146, H. No.1 (PT),  
Vasai Phata Highway Junction, Palhar,  
Nh8, Vasai (E) - 401 208, Maharashtra (India).

Tel. : (+91-250) 6521601 - 08

Mob. : (+91) 986 723 6594

E-mail : [sales@umangpharmatech.com](mailto:sales@umangpharmatech.com)

Website: [www.umangpharmaceuticals.com](http://www.umangpharmaceuticals.com)

[www.micro-pellets.com](http://www.micro-pellets.com)

© 2014. All rights reserved.