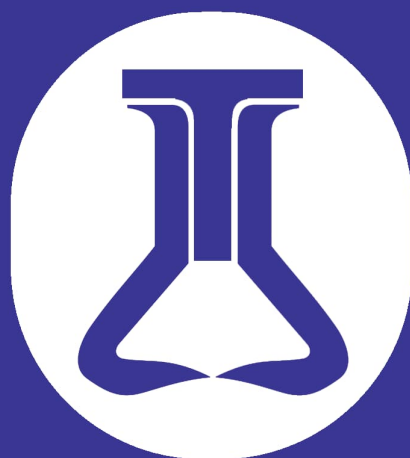




Alborz Manufacturing Site:

- 10 production lines and GMP certificated
- Manufacturing and (non- narcotice , narcotic APIs) and (Finished , Semi Finished products)
- Producing LVHV and High-Tech products
- Having a Acrodite laboratory
- Solvent recovery system

WE THINK OF WORLD CLASS QUALITY



Termod

- Active Pharmaceutical Ingredients
- Pellet Forms
- Pharmaceutical Intermediates
- Finished Dosage Forms



About Temad Co.

TemadCo, (Active Pharmaceutical Ingredients), is member of TaminPharmaceutical Investment Company (TPICO) from SSIC SHASTA Group. Temad Co. Active Pharmaceutical Ingredients manufacturer, was established in 1980 as one of the largest producers of APIs in Iran and an innovative manufacturer of Narcotics and Non-Narcotics of world class quality in the Middle East. Apart from compliance with Iranian GMP regulations, Temad Co has acquired the national and international standards of API's manufacturing such as ISO 9001, ISO14001, ISO 45001 and Food & Drug Administration withcertifying bodies in Europe , is also anticipating the CEP certificate from European organization. Temad Co. is one of a pioneer pharmaceutical manufacturing company that is using its own qualified raw materials in finished dosage form manufacturing lines. At present, the company has 21 production lines and more than 115 pharmaceutical products including narcotics and general APIs in different forms such as DC grade API, pellets and non-sterile injectable grade. Temad Co. as knowledge-based company and prominent national exporter in 2022 has employed 570 experienced, committed and responsible human resources to fulfill long term and high attitude approaches.

Manufacturing Facilities

• Alborz Manufacturing Site

Alborz manufacturing site is located in an industrial zone 28th km of the capital, Alborz, in a total area of about 4.2 hectare. This area includes production sites of 7170 m² a warehouse is of 3450 m² and an administrative and laboratory area of 4450 m². Temad facilities include high quality equipment with large capacity (more than 300,000 L) glass-lines, stainless steel reactors and distillation units.

- Mashhad Manufacturing Site

Mashhad manufacturing site is located in the 3rd km of Mashhad–Fariman road in Khorasan Razavi province in total area of about 11 Hectares. Total capacity of Mashhad Temad facilities is about 150,000 L glass lined, stainless steel reactors and distillation units.

Mashhad's site, an API's division of Temad, is the highly privileged producer of Paracetamol Powder and DC by employing high quality and experienced staff which not only has brought customer satisfaction in the local market but also exports its products to the international markets

- Quality Control

The quality control laboratory is equipped with the most advanced chemical analysis and identification apparatuses and equipments, which include HPLC, GC, FT-IR, Spectrophotometer, UV-VIS, IMS, Atomic Absorption, TLC Scanner and Laser Particle Size Analyzer. Stringent quality control procedures ensure products of the highest quality as an obligation to the customers.

Certificates and Achievements



ISO 9001:2015



ISO 45001:2018



ISO 14001:2015

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Active Pharmaceutical Ingredients (API)

Nervous system						
Analgesic						
Opioids						
Item	APIs	Cas No	Indication	Available forms	Status	Method of Analysis
1	Buprenorphine Hydrochloride	53152-21-9	Opioid addiction treatment	API powder	Available	BP
2	Morphine Sulfate	6211-15-0	Chronic, moderate to severe pain management	API powder	Available	USP,BP
3	Morphine Hydrochloride	52-26-6	Chronic, moderate to severe pain management	API powder	Available	BP
4	Hydrocodone Bitartrate	34195-34-1	Moderate to severe pain management	API powder	Available	USP,BP
5	Codeine Phosphate	41444-62-6	Mild to moderate pain management	API powder	Available	USP,BP
6	Tramadol Hydrochloride	36282-47-0	Moderate to moderately severe pain management	API powder	Available	JP,BP
7	Thebaine	115-37-7	Intermediate	powder	Available	In-House
8	Noscapine Hydrochloride	912-60-7	Antitussive	API powder	Available	BP , JP
9	Noscapine Base	128-62-1	Antitussive	API powder	Available	JP , USP,BP
10	Papaverine Hydrochloride	61-25-6	Smooth muscle spasm and cerebral and peripheral ischemia associated with arterial spasm treatment	API powder	Available	USP,BP
11	Oxycodone Hydrochloride	124-90-3	Moderate to severe pain management	API powder	Available on order	USP
Drugs used in Addictive Disorders						
Opioid Antagonists						
1	Naltrexone Hydrochloride	16676-29-2	Alcohol dependence and opioid addiction management	API powder	Available	USP
2	Naltrexone Base	16590-41-3	Alcohol dependence and opioid addiction management	API powder	Available	In-House
3	Naloxone Hydrochloride	51481-60-8	Reversal of opioid depression, including respiratory depression	API powder	Available on order	USP
4	Methadone Hydrochloride	1095-90-5	Severe pain management, Opioid addiction treatment	API powder	Available	USP,BP

Other Analgesics and Antipyretics

Item	API's	Cas No	Indication	Available forms	Status	Method of Analysis
1	Paracetamol (Acetaminophen)	103-90-2	Analgesic and antipyretic	API powder/DC 96%/DC 90%/ Inj. (none steril)grade	Available	USP/In-House/In-House/USP
2	Aspirin (Acetylsalicylic Acid)	50-78-2	Treatment of pain, fever, inflammation, migraines, and reducing the risk of major adverse cardiovascular events	API powder/API crystal form/Granules	Available	BP

Antidepressants

1	Fluoxetine Hydrochloride	56296-78-7	Major depressive disorder treatment	API powder	Available	USP
2	Fluvoxamine Maleate	61718-82-9	Obsessive compulsive disorder (OCD) treatment	API powder	Available	BP

Antipsychotics

1	Quetiapine Hemifumarate	111974-72-2	Bipolar disorder and schizophrenia treatment	API powder	Available	USP
2	Risperidone	106266-06-2	Schizophrenia, autistic disorder, acute mania and bipolar disorder treatment	API powder	Available on order	BP

Antiepileptics

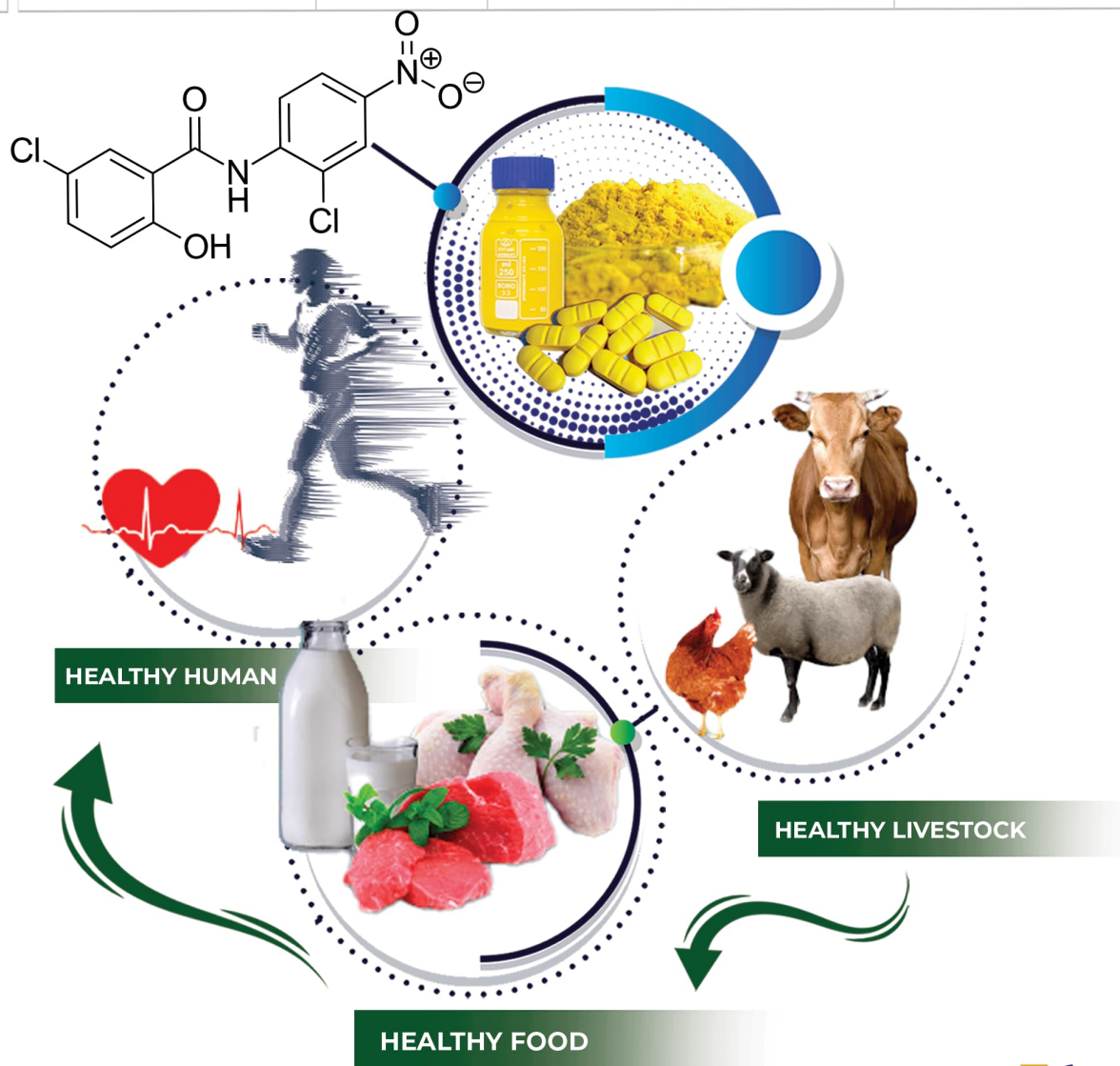
1	Pregabalin	148553-50-8	Neuropathic pain treatment, and partial-onset seizures management	API powder	Available	BP
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Other Nervous System Drugs

1	Dextromethorphan Hydrobromide	6700-34-1	Cough suppressant	API powder	API powder	USP
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Veterinary Medicine

API (Product List)	Under Development			
	FINISHED PRODUCT	Drug Class/Group	Composition (Each ML Contains)	PACKAGING
Aspirin	Suitable powder	Anti Inflammatory	250 mg Acetyl Salicylic Acid	Bag in Drums
Enrofloxacin	Oral Solution 10% Injectable Solution 5% & 10%	Antibiotic	50 mg in injection & 100 mg in oral	Vial 50 ml & Oral Pet
Florfenicol	Oral Solution 10% Injectable Solution 30% & Powder 50%	Antibiotic	100 mg in oral & 500 mg in powder & 300 mg injection	Injection Vial 50 ml & Oral Pet
Niclosamide Piperazine	Oral Suspension 1250 mg in Blister as Tablet	Anti Helminthic	1250 mg in tablet & 200 mg in oral suspension	10 Blister in Box
Dexamethasone Phosphate	Injectable Solution	Anti Inflammatory	2.63 mg in Injectable solution	Injection Vial 100 ml



Cardiovascular System

Lipid Modifying Agents

Item	API's	Cas No	Indication	Available forms	Status	Method of Analysis
1	Atorvastatin Calcium	134523-03-8	Dyslipidemia treatment	API powder	Available	USP
2	Rosuvastatin Calcium	147098-20-2	Triglyceridemia, Primary Dysbetalipoproteinemia, and Homozygous Familial Hypercholesterolemia treatment	API powder	Under Development	BP

Antihypertensives

1	Prazosin Hydrochloride	19237-84-4	Hypertension treatment	API powder	Available on order	USP,BP
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Genito Urinary System and Sex Hormones

Urological Drugs

1	Dapoxetine Hydrochloride	129938-20-1	Premature ejaculation treatment	API powder / Pellets	Available	In-House
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Drugs Used in Benign Prostatic Hypertrophy

1	Tamsulosin Hydrochloride	106463-17-6	Benign prostatic hyperplasia treatment	API powder/pellets	Available on order	BP, USP
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Antiandrogens

1	Cyproterone Acetate	427-51-0	Male hyper sexuality in males treatment, palliative therapy in prostatic carcinoma, and in combination with estrogen, therapy of severe acne and hirsutism in females	API powder	Available	BP
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Alimentary Tract and Metabolism

Drugs Used in Diabetes

Blood glucose lowering drugs

1	Metformin	657-24-9	Antidiabetic agent, management of antipsychotic-induced weight gain, type 2 diabetes prevention, and the treatment and prevention of polycystic ovary syndrome (PCOS)	API powder/DC 95%	Available	USP
2	Metformin Hydrochloride	1115-70-4	Antidiabetic agent	Micronized powder	Available	USP
3	Pioglitazone Hydrochloride	112529-15-4	Antihyperglycemic	API powder	Available	USP
4	Sitagliptin Phosphate Monohydrate	654671-77-9	Dipeptidyl peptidase-4 (DPP-4) inhibitor, improves glycemic control in patients with type 2 diabetes mellitus	API powder	Under Development	USP

Vitamins						
Item	API's	Cas No	Indication	Available forms	Status	Method of Analysis
1	Thiamine Hydrochloride (vitamin B1)	67-03-8	Beriberi, Wernicke Encephalopathy and Thiamin Deficiency treatment	API powder / Inj. (none steril) Grade	Available	EP, BP
Anti-infective for Systemic Use						
Antibacterial						
Fluoroquinolones						
1	Ofloxacin	82419-36-1	Mild to moderate infection treatment	API powder	Available	USP
2	Ciprofloxacin Hydrochloride	93107-08-5	Various infections treatment	API powder / Inj. (none steril) Grade	Available	USP
3	Ciprofloxacin Base	85721-33-1	Various infections treatment	API powder / Inj. (none steril) Grade	Available	USP
4	Levofloxacin	100986-85-4	Various infections treatment	API powder / Micronized powder/Inj. (none steril) Grade	Available	USP
Macrolides						
1	Erythromycin Ethylsuccinate	1264-62-6	Various infections treatment	API powder	Available on order	EP
2	Clarithromycin	81103-11-9	Various infections treatment	API powder/Inj. (none steril) Grade	Available on Order	EP, BP
Antivirals						
1	Acyclovir	59277-89-3	Herpes zoster, genital herpes, and chickenpox treatment	API powder	Available on Order	USP
Antiparasitic products						
Antiprotozoals						
Antimalarias						
1	Hydroxychloroquine Sulfate	747-36-4	Uncomplicated malaria, rheumatoid arthritis, chronic discoid lupus erythematosus, and systemic lupus erythematosus treatment	API powder	Available	USP
Musculo-skeletal System						
Anti-inflammatory and Antirheumatic						
Coxicbs						
1	Celecoxib	169590-42-5	Osteoarthritis (OA) and rheumatoid arthritis (RA) management	API powder	Available	USP
Respiratory System						
Antihistamines for systemic use						
1	Ketotifen Fumarate	34580-14-8	Atopic asthma, various allergic symptoms and disorders treatment	API powder	Available	BP

Buprenorphine 2 mg - Tab



Methadone 5 / 20 / 40mg - Tab

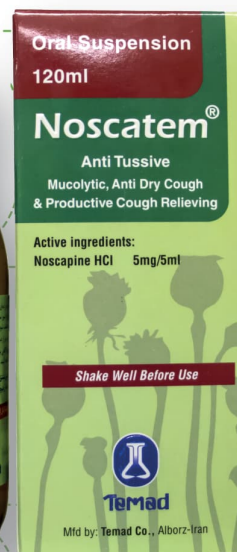
Tramadol 100mg - Tab



Oxycodone 5mg - Tab



Methadone HCl 25 mg / 5ml – Syrup



Noscitem (Noscipine HCl 5mg / 5ml) - Suspension



Opium Tincture 1%-Syrup

Temad

Finished Dosage Form (FDF)



Buprenorphine 2 mg - Tab

Morphine Sulfate 10 mg - Tab



Methadone HCl 40 mg & 20mg & 5mg - Tab

Acetaminophen/Oxycodone 325 / 5mg - Tab



Tramadol 100 mg - Tab

Hydroxychloroquine Sulfate 200 mg - Tab



Oxycodone 5mg – Tab



Methadone HCl 25 mg/ 5ml – Syrup

Expectorant Codeine
(Guaifenesin / Pseudoephedrine HCl / Codeine Phosphate)
(100/ 30 /10mg) / 5ml -Syrup



Opium Tincture 1% -Syrup

Guaicodin (Guaifenesin/ Codeine Phosphate)
(100 / 10mg / 5ml) - Syrup



Emotem (Ondansetron HCl 4mg / 5ml) - Syrup

Noscatem (Noscapine HCl 5mg / 5ml) - Suspension



Omeprazole 20 mg - Cap



Esomeprazole 40 mg - Cap



Pantoprazole 40 mg - Cap



Lansoprazole 30 mg - Cap



Temad

Finished Dosage Form (FDF)

Coming Soon

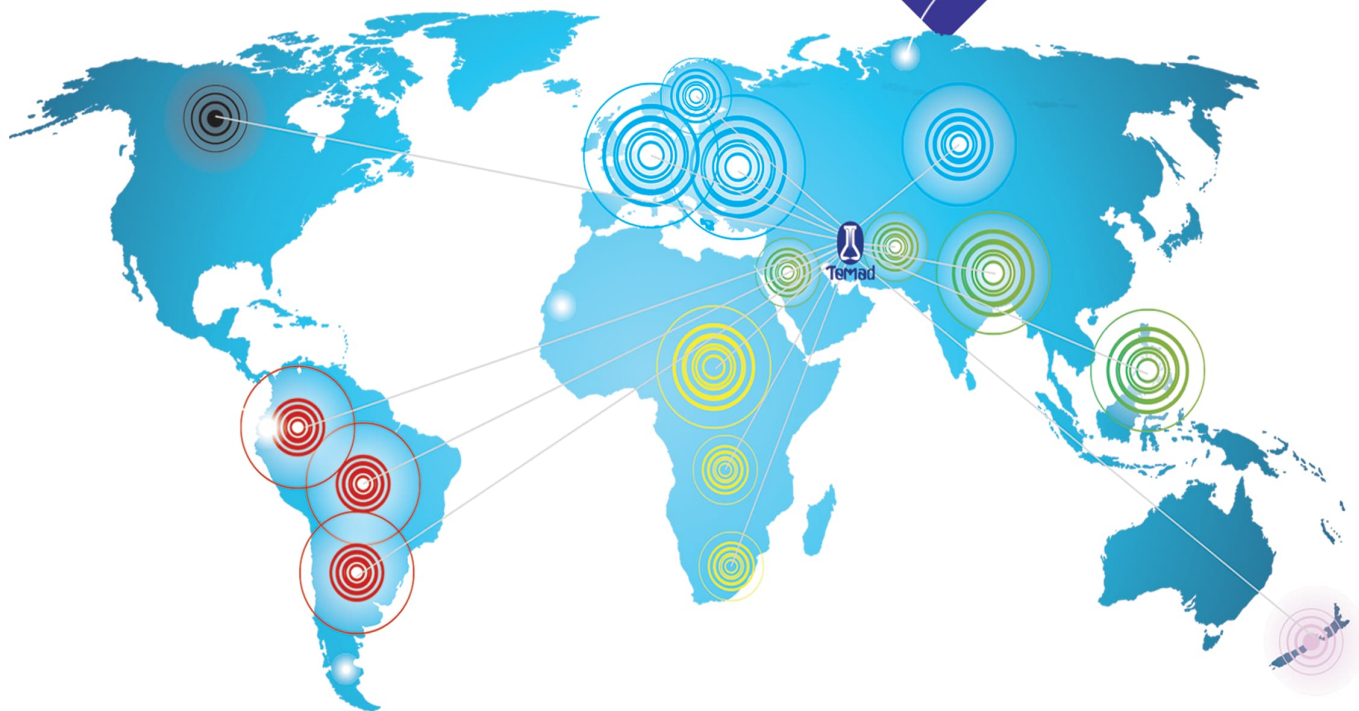
NO	Product Name	Dosage	Forms	Sales Territory
1	Buprenorphine / Naloxone	(8/2)mg & (2/ 0.5)mg	Tab	Domestic & Export
2	Buprenorphine	8mg	Tab	
3	Naltrexone Hydrochloride	50mg & 25mg	Cap	
4	Tramadol	200mg	Tab	
5	Acetaminophen / Ibuprofen	500 / 200mg	Tab	
6	Acetaminophen / Caffeine / Codeine	300 / 15 / 15mg	Tab	

Pharmaceutical Pellets

Item	Pellets	CAS NO.	Quality			Documentation CTD	Export Reference
			EP	USP	BP JP		
1	Lansoprazole Pellets (8.5%)			●		●	Indonesia
2	Omeprazole Pellets (8.5%)			●		●	Indonesia, Iraq
3	Pantoprazole Sodium Pellets (15% & 20%)			●		●	—
4	Esomeprazole Pellets (22.5%)			●		●	—
5	Itraconazole Pellets (22%)			in-House		●	—

Export Products

Item	APIs	CAS. No.	Quality				Documentation	History of Export
			EP	USP	BP	JP	CTD	
1	Codeine Base	6059-47-8	✓	✓	✓		✓	Belgium, Kazakhstan, Vietnam, Venezuela, Switzerland,
2	Codeine Phosphate	41444-62-6	✓	✓	✓		✓	India , Iraq, Congo, Syria, Ivory Coast, Colombia, Kenya,Germany,Denmark,Nigeria, Thailand,Taiwan,Lebanon,Switzerland,Brazil
3	Noscapine Base/HCl	128-62-1/912-60-7	✓	✓	✓	✓	✓	Japan, Taiwan, China, South Korea, Indonesia , Germany, Singapore, India
4	Methadone HCl	1095-90-5	✓	✓	✓		✓	Thailand, Switzerland,Canada
5	Buprenorphine HCl	53152-21-9	✓		✓		✓	India
6	Morphine Sulfate	6211-15-0	✓	✓	✓		✓	UK, Taiwan, Thailand, Guyana, India
7	Morphine HCl	52-26-6	✓		✓		✓	Taiwan, Thailand,Russia
8	Opium Tincture 1% . 2%		✓	✓	✓		✓	Czech Republic,Taiwan, New Zealand,Zimbabwe
9	Oxycodone HCl	124-90-3		✓			✓	Syria
10	Oxymorphone HCl	357-07-3		✓			✓	Switzerland, Bangladesh
11	Pholcodine(monohydrate)	6254-99-5	✓		✓		✓	Hong Kong, Nigeria
12	Papaverine HCl	61-25-6	✓	✓	✓		✓	India, Chile, Germany, Italy, Russia, Hong Kong, Georgia,
13	Naltrexone HCl	16676-29-2		✓			✓	China, South Korea, Brazil, Canada, Switzerland, Taiwan, India
14	Naloxone HCl	51481-60-8		✓			✓	Srilanka, India, Russia
15	Hydrocodone Bitartrate	34195-34-1		✓			✓	Colombia, Syria, Peru
16	Paracetamol Powder/DC	103-90-2	✓	✓	✓		✓	Iraq, Russia, South Africa,Ivory Coast, Syria, Afghanistan
17	Tramadol HCl	36282-47-0	✓	✓	✓		✓	Pakistan, Syria, Colombia, Ireland



- Asia Bangladesh, China, Hong kong, India, Japan, Kazakhstan, Malaysia, Pakistan
South Korea, Syria, Singapore, Taiwan, Thailand, Uzbekistan, Vietnam, Georgia
Iraq, Afghanistan, Srilanka
- Europe Belarus, Belgium, Czech Republic, Denmark, Germany, United Kingdom
Netherlands, Russia, Switzerland, Turkey, Ireland
- Africa Algeria, Congo, Egypt, Nigeria, South Africa, Uganda, Zimbabwe
Zambia, Ghana, Ivory Coast, Kenya
- South America Costa Rica, Chile, Colombia, Guatemala
Venezuela, Brazil, Peru, Guyana
- North America Canada
- Oceania New Zealand

No.	Intermediates	CAS No.	Formula	Product
1	Morphinone dicarbamate		$C_{22}H_{23}NO_7$	Naltrexone. HCl Naloxone. HCl Oxymorphone. HCl Oxycodone. HCl
2	14-Hydroxy morphinone dicarbamate		$C_{22}H_{23}NO_8$	Naltrexone. HCl Naloxone. HCl Oxymorphone. HCl Oxycodone. HCl
3	14-Hydroxy dihydro morphinone dicarbamate		$C_{22}H_{25}NO_8$	Naltrexone. HCl Naloxone. HCl Oxymorphone. HCl Oxycodone. HCl
4	Naltrexone base	16590-41-3	$C_{20}H_{23}NO_4$	Naltrexone. HCl
5	Naloxone base	465-65-6	$C_{19}H_{21}NO_4$	Naloxone. HCl
6	Oxymorphone	76-41-5	$C_{17}H_{19}NO_4$	Oxymorphone. HCl
7	Oxycodone	76-42-6	$C_{18}H_{21}NO_4$	Oxycodone. HCl
8	Codeinone	467-13-0	$C_{18}H_{19}NO_3$	Oxycodone. HCl
9	14-Hydroxy codeinone		$C_{18}H_{19}NO_4$	Oxycodone. HCl
10	Thevinone	15358-22-2	$C_{23}H_{27}NO_4$	Buprenorphine. HCl
11	Dihydro Thevinone	16196-82-0	$C_{23}H_{29}NO_4$	Buprenorphine. HCl
12	Thevinol		$C_{27}H_{39}NO_4$	Buprenorphine. HCl
13	3-O-methyl norbuprenorphine		$C_{26}H_{37}NO_4$	Buprenorphine. HCl
14	Norbuprenorphine	78715-23-8	$C_{25}H_{35}NO_4$	Buprenorphine. HCl
15	Buprenorphine base	52485-79-7	$C_{29}H_{41}NO_4$	Buprenorphine. HCl
16	Dihydro codeine	125-28-0	$C_{18}H_{23}NO_3$	Dihydrocodeine phosphate
17	Hydrocodone	125-29-1	$C_{18}H_{21}NO_4$	Hydrocodone bitartrate
18	Noroxymorphone	33522-95-1	$C_{16}H_{17}NO_4$	Naltrexone.HCl Naloxone.HCl

Research & Development(R&D)

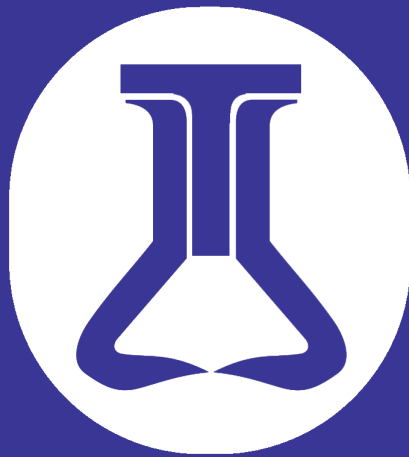


Our R&D team consists of highly qualified experts and postgraduates specializing in various fields of pharmaceuticals and basic sciences. They utilize intricate chemistry processes to generate multi-step intermediates and active pharmaceutical ingredients, encompassing hazardous, narcotic, and non-narcotic Active pharmaceutical ingredients(APIs). Our objective is to introduce affordable and innovative pharmaceutical technologies to both domestic and international markets.

Moreover, our R&D team excels in the production of both semi-finished products, including (pellets, and DC granules) and finish products (various pharmaceutical forms) in accordance with cutting-edge global standards.

Their expertise lies in creating technical knowledge in the production of active pharmaceutical ingredients. The research team excels in multiple reaction types including:

- Coupling reactions
- Reduction
- Oxidation
- Grignard reactions
- N-alkylation
- O-alkylation
- Enantiomers Separation
- Cyclization
- N- demethylation and etc.



Temad

SYMBOL OF TRUST

WE THINK OF WORLD CLASS QUALITY

Temad Factory



Mashhad Manufacturing Site:

- 11 production lines and GMP certificated
- 4000 MT production capacity for non-narcotic API annually
- The land with an area of 10 hectares
- The biggest manufacturer of human and veterinary APIs
- Non-sterile injectable APIs and Semi-Finished



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