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Hunan Bio-essential Tech Co., Ltd

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湖南宝利士生物技术有限公司

湖南宝利士生物技术有限公司成立于2006年,位于国家级浏阳经济技术开发区,占地面积61403m²。公司为湖南福来格生物技术有限公司下属的全资子公司,是湖南福来格的产业化基地,主要采用酶法技术生产氨基酸、谷胱甘肽系列、左旋多巴、胞磷胆碱钠、多肽等系列产品,拥有先进的生产设备以及规模化的生物催化生产线,氨基酸产能超800吨/年。

Hunan Bio-essential Tech Co.,Ltd., founded in 2006,located in Liuyang Economic and Technological Development Zone, with an area of 61,403 square meters. As a wholly-owned subsidiary of Hunan Flag Bio-technology Co., Ltd.,is the industrial base of FLAG, mainly using enzymatic technology to produce amino acids,glutathione series ,Levodopap,Citicoline Sodium,eptides and other series of products.With advanced production equipment and a large-scale bio-catalytic production line,annual production capacity is over 800 tons in amino acids.



非天然氨基酸及衍生物

NON-NATURAL AMINO ACIDS

产品名称 PRODUCT NAME	CAS 号 CAS NO	产品名称 PRODUCT NAME	CAS 号 CAS NO
L-正缬氨酸 L-Norvaline	6600-40-4	D-苯丙氨酸 D-Phenylalanine	673-06-3
S-β-苯丙氨酸 S-β-Phenylalanine	40856-44-8	D-色氨酸 D-tryptophan	153-94-6
L-高苯丙氨酸 L-Homophenylalanine	943-73-7	D-正缬氨酸 D-Norvaline	2013-12-9
L-正亮氨酸 L-Norleucine	327-57-1	D-正亮氨酸 D-Norleucine	327-56-0
L-叔亮氨酸 L-tert-Leucine	20859-02-3	D-丙氨酸 D-Alanine	338-69-2
L-2-哌啶酸 L(-)-Pipicolinic acid	3105-95-1	D-2-氨基丁酸 D-2-Aminobutanoic acid	2623-91-8
L-2-氨基丁酸 L-2-Aminobutanoic acid	1492-24-6	D-缬氨酸 D-Valine	640-68-6
L-2-氨基丁酰胺盐酸盐 L-2-Aminobutanamide Hydrochloride	7682-20-4	D-苏氨酸 D-Threonine	632-20-2
L-正缬氨酸乙酯盐酸盐 L-Norvaline ethyl ester hydrochloride	40918-51-2	D-色氨酸甲酯盐酸盐	14907-27-8
L-高苯丙氨酸乙酯盐酸盐 L-Homophenylalanine ethyl ester hydrochloride	90891-21-7	D-苯丙氨酸甲酯盐酸盐 D-Phenylalanine methyl ester hydrochloride	13033-84-6

医药原料

PHARMACEUTICAL RAW MATERIALS

产品名称 PRODUCT NAME	CAS 号 CAS NO	产品名称 PRODUCT NAME	CAS 号 CAS NO
还原型谷胱甘肽 (医药级) L-Glutathione reduced	70-18-8	对甲苯磺酸二硫酸腺苷蛋氨酸 Ademetionine disulfate tosylate (SAM-T)	97540-22-2
(S)-(+)-3-羟基四氢呋喃 (S)-(+)-3-Hydroxytetrahydrofuran	86087-23-2	β-烟酰胺腺嘌呤二核苷酸磷酸钠盐 (NADP+) β-nicotinamide adenine dinucleotide phosphate sodium salt	1184-16-3
三磷酸腺苷溶液(ATP液) Adenosine 5'-triphosphatase	9000-83-3	三磷酸腺苷二钠 (ATP) Adenosine Triphosphate Disodium	987-65-5
盐酸多巴胺 Dopamine Hydrochloride	62-31-7	左旋多巴 Levodopa	59-92-7
胞磷胆碱 Citicoline	987-78-0	胞磷胆碱钠 Citicoline Sodium	33818-15-4

化妆品原料

COSMETIC RAW MATERIALS

产品名称 PRODUCT NAME	CAS 号 CAS NO	产品名称 PRODUCT NAME	CAS 号 CAS NO
还原型谷胱甘肽(化妆品级) L-Glutathione reduced	70-18-8	氧化型谷胱甘肽 Oxidized Glutathione	27025-41-8
S-乙酰-L-谷胱甘肽 S-Acetyl-L-Glutathione	3054-47-5	S-苯乙酰-L-谷胱甘肽 S-Phenylacetyl Glutathione	
α-熊果苷 Alpha-Arbutin	84380-01-8	Vc葡萄糖苷(抗坏血酸葡萄糖苷) Ascorbyl Glucoside	129499-78-1

食品原料及添加剂

DIETARY SUPPLEMENT INGREDIENTS

产品名称 PRODUCT NAME	CAS 号 CAS NO	产品名称 PRODUCT NAME	CAS 号 CAS NO
还原型谷胱甘肽(食品级) L-Glutathione reduced	70-18-8	N-乙酰神经氨酸(唾液酸、燕窝酸) N-Acetylneuraminic acid	131-48-6
β-烟酰胺单核苷酸(NMN) β-Nicotinamide Mononucleotide	1094-61-7	异麦芽酮糖 Isomaltulose	13718-94-0
1,6-二磷酸果糖三钠盐 D-Fructose 1,6-bisphosphate trisodium salt	38099-82-0	Vc磷酸酯 L-ascorbate-2-phosphate	23313-12-4

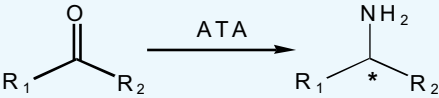
辅酶系列

COENZYME

产品名称 PRODUCT NAME	CAS 号 CAS NO	产品名称 PRODUCT NAME	CAS 号 CAS NO
NAD(β-烟酰胺腺嘌呤二核苷酸) L-2-Aminobutanoic acid	53-84-9	NADP(β-烟酰胺腺嘌呤二核苷酸磷酸) β-Nicotinamide Adenine Dinucleotide Phosphate	53-59-8
NADH(β-烟酰胺腺嘌呤二核苷酸还原型) β-Nicotinamide adenine dinucleotide, reduced form	606-68-8	β-烟酰胺腺嘌呤二核苷酸磷酸还原型 NADPH β-Nicotinamide adenine dinucleotide phosphate, reduced tetrasodium salt	2646-71-1
NMN(β-烟酰胺单核苷酸) β-Nicotinamide Mononucleotide	1094-61-7	辅酶Q10 CO ENZYME Q10	303-98-0

酶制剂系列产品

ENZYMES

产品代码 PRODUCT CODE	产品名称 PRODUCT NAME	应用 APPLICATION
ILP	脂肪酶 lipases	用于油脂加工、生物柴油生产和药物中间体手性拆分、手性醇和脂的合成 For oil and biodiesel production and chiral separation of pharmaceutical intermediates and synthesis of chiral alcohols and lipids.
IPA	固定化青霉素G酰化酶 Immobilized penicillin acylase	用于酰胺水解，酶法制备6-APA、7-ADCA、7-AVCA、7-ANCA、手性化合物拆分、多肽合成氨基保护及去保护等。 For enzymatic manufacturing of 6-APA, 7-ADCA, 7-AVCA, 7-ANCA. Applicable for separation of chiral compounds, and peptides synthesis amino protection and un-protection.
SIPA	合成用固定化青霉素酰化酶 Immobilized penicillin acylase for synthesis	用于酶法合成阿莫西林、氨苄西林、头孢羟氨苄、头孢氨苄、头孢克洛、头孢拉定、头孢丙烯等 For enzymatic Amoxicillin and Ampicillin. For enzymatic Cefalexin and cefadroxil. For enzymatic cefceclor, cefradine and cefprozil.
ICA	固定化头孢菌素C酰化酶 Immobilized cephalosporin C acylase	用于一步酶法制备7-ACA For enzymatic synthesis of 7-ACA
IDE	固定化去乙酰基酯酶 Immobilized deacetylase	用于酶法制备D-7-ACA及7-ACA类似物的3位去乙酰基 For enzymatic synthesis of D-7-ACA
IA	固定化精氨酸酶 Immobilize arginase	用于酶法制备L-鸟氨酸 For enzymatic L-Ornithine
IAO	固定化D-氨基酸氧化酶 Immobilized D-amino-acid oxidase	用于D型氨基酸及手性混旋氨基酸的酶法拆分 For enzymatic separation of D-series Amino acids and Chiral mixing compounds
IDH	固定化D-海因酶 Immobilized D-hydantoinase	
IDC	固定化D-氨甲酰基水解酶 Immobilized N-carbamoyl-D-amino acid hydrolase	
FDH	甲酸脱氢酶 Formate dehydrogenase	辅酶再生 For the regeneration of coenzyme
GDH	葡萄糖脱氢酶 Glucose dehydrogenase	
KRED	酮还原酶 Ketoreductases	
ATA	转氨酶 Transaminases	
ES-DZ	项目定制酶	按客户需求进行制备和生产

PATENT CERTIFICATE

专利证书

序号	知识产权具体名称	专利号
1	突变型头孢菌素C酰化酶及制备方法和转化7-ACA的方法 Mutant cephalosporin C acylase, preparation method and method for transforming 7-ACA	ZL 201210568547.2
2	头孢克洛及其合成方法 Cefaclor and its synthesis method	ZL 201310629212.1
3	高纯L-α-氨基酸的生物合成方法 High-purity L-α-amino acio bio-synthesis method	ZL 201410552914.9
4	一种生物催化生产L-2-氨基丁酸的方法 Method for biocatalytic production of L-2-aminobutyric acid	ZL 201510168601.8
5	一种合成用青霉素G酰化酶突变体及其在制备阿莫西林中的应用 A synthetic penicillin G acylase mutant and its application in preparing amoxicillin	ZL 201510736957.7
6	高光学纯L-高丝氨酸及其衍生物的生物合成方法 Biosynthesis of high optical purity L-homoserine and its derivatives	ZL 201510980331.0
7	多酶体系制备还原型谷胱甘肽的方法 Method for preparing reduced glutathione by multi-enzyme system	ZL 201710597547.8
8	一种7β-羟基类固醇脱氢酶突变体、编码序列、重组表达载体、基因工程菌及应用 A 7β-hydroxysteroid dehydrogenase mutant, coding sequence, recombinant expression vector, genetically engineered bacteria and application	ZL 201811135213.X
9	一种酶法合成青霉素V盐的方法 A kind of method for enzymatic synthesis of penicillin V salt	ZL 201910089112.1
10	一种S-腺苷甲硫氨酸合成酶突变体及利用其的制备方法 A kind of S-adenosylmethionine synthase mutant and its preparation method	ZL 202010250584.3
11	重组大肠杆菌工程菌及利用其制备S-腺苷甲硫氨酸的方法 Recombinant E. coli engineering bacteria, the method of preparing S-adenosine methionine by this method	ZL 202010250598.5
12	一种青霉素 V 酰化酶突变体、编码序列、重组表达载体、基因工程菌及应用 A mutant of penicillin V acylase, coding sequence, recombinant expression vector, gene engineering bacteria and their applications	2018111352233.0
13	一种蔗糖异构酶突变体及其应用 A sucrose isomerase mutant and its application	202110868362.2
14	一种基于酶法合成烟酰胺单核苷酸的方法 Enzymatic synthesis of niacinamide mononucleotides	202110120111.6

COMPANY PROFILE

公司介绍



湖南福来格生物技术有限公司

湖南福来格生物技术有限公司成立于2002年4月，是集生物酶制剂、生物催化产品研发、生产、销售于一体的高新技术企业。福来格研发中心已开发具有独立自主知识产权的酶制剂产品100余种，化学品60余种，申请国家发明专利30余项。

Established in 2002, Hunan Flag Bio-Tech Co., Ltd is a high tech enterprise and National specialized technology enterprise, integrated with the R&D, manufacturing and sales in enzymes and bio-catalytic products.FLAG R&D center has developed more than 100 kinds of enzyme products with independent intellectual property rights, more than 60 kinds of chemicals. Besides,FLAG has applied for more than 30 national invention patents.



QUALITY

质量

湖南福来格及宝利士严格贯彻执行ISO9001质量标准。谷胱甘肽按照GMP标准原料药注册申报，用于出口的谷胱甘肽产品的生产和管理严格贯彻执行GMP质量管理体系。

FLAG and its subsidiaries strictly implement ISO9001 quality standards.Glutathione will be registered and declared in accordance with GMP standard , and GMP quality management system will be strictly implemented in the production.

