INSOLENT [LABS]

Dossier de lot : K-23-039

Happy Bonne Humeur

Général	
Date début de production :	20/11/2023
Date fin de production :	20/11/2023
DLUO :	22/11/2026

Préparation	
Quantité demandée :	**130 000**
Quantité total engagée :	130 000
Perte :	0 %

Contenant	
Qualité :	HPMC
Taille :	T.0
Couleur :	TR.

Composition

Ingrédient	Quantité / Unité	Perte	Quantité à produire	Quantité prélevée	N° Lot
CH-L-Tryptophane	90,92 Mg	0 %	11 819,6 g	11 819,6 g	00002000
EXS-Rhodiola 3% ros.+1% salid.	20 Mg	0 %	2 600 g	2 600 g	202203211442
EXS-Safran 2% safr.	1,5 Mg	0 %	195 g	195 g	202212151659
VIT-Vit. B1 (Thiamine) 89%	0,745 Mg	0 %	96,85 g	96,85 g	Y01202105010
VIT-Vit. B2 (Riboflavine)	0,84 Mg	0 %	109,2 g	109,2 g	2202124
VIT-Vit. PP (ou B3- Niacin--Nicotinam.)	9,6 Mg	0 %	1 248 g	1 248 g	b2208nia156r
VIT-Vit. B9 (Acide folique)	0,12 Mg	0 %	15,6 g	15,6 g	170950E
VIT-Vit. B12 (Methylcobalamine)	0,002 Mg	0 %	0,26 g	0,26 g	032205032
AD- BIO Acacia fibregum Inavea Essential.	55 Mg	0 %	7 150 g	7 150 g	230452
CH-L-Tryptophane DC	159,08 Mg	0 %	20 680,4 g	20 680,4 g	202109126 DC-GRANULES
Total (Mise en Oeuvre)	**337,81 Mg**		**43 914,91 g**		

Contenant	Quantité	N Lot Fourn.
G-Vg-0-Transp	130 000	SV023011301

Fabrication

Informations	
Opérateur :	**SV**
Vitesse :	60

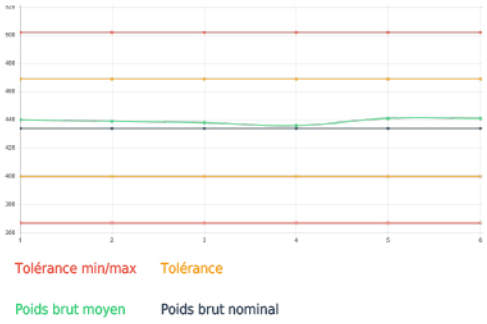
Poids	
Poids net :	338 Mg
Contenant poids :	97 Mg
Poids brut nominal :	435 Mg

Tolérance	
Tolérance / Poids net :	-10% / +10%
Soit poids unitaire brut :	>401Mg & <469Mg

Relevés

Contrôle Poids Bruts moyens (Lot de 10 gélules) : 440,439,438,436,441,441

INSOLENT [LABS]



Poids moyen sur 10 gélules (Mesure 6)	
Poids brut :	439 Mg
Poids net :	**342 Mg**

Contrôle Uniformité de masse : Mesures : 60	
< 401 Mg : (0 %)	< 469 Mg : 1 (1,7 %)
< 367 Mg : (0 %)	< 502 Mg : (0 %)

Quantité théorique à obtenir :	128 406
Quantité unité reg. machine :	
Quantité nette à obtenir :	128 406

Quantité produite :	126 000
Rendement :	98%

INSOLENT [LABS]

Tryptophane USP poudre
Tryptophane USP powder
Code : 1502110

SPECIFICATION DATA SHEET – FICHE TECHNIQUE

Manufacturing	
Product name	L-Tryptophan
Molecular formula	C11H12N2O2
Molecular weight	204.23
EINECS n°	200-795-6
CAS n°	73-22-3
Origin (source)	Fermentation
Additives/Carrier	None
Compliance standard	USP

Properties	**Requirements**
Organoleptic	
Appearance	White to slightly yellowish-white crystals or crystalline powder
Physico-chemical	
Chloride	≤ 0.05%
Iron	≤ 0.003%
Sulfate	≤ 0.03%
Loss on drying	≤ 0.30%
Residue on ignition	≤ 0.10%
pH	5.5 ~7.0
Assay	
Assay	98.5% ~ 101.5%
Microbiological	
Total plate count	≤ 10 000 CFU/g
Yeast & mould	≤ 100 CFU/g
E.coli	Negative
Salmonella	Negative (10g)
Contaminants	
Heavy metals	≤ 15ppm
Lead	≤ 3ppm
Cadmium	≤ 1ppm
Mercury	≤ 0.1ppm
Arsenic	≤ 1ppm
Shelf life	*Please refer to the certificate of analysis*

**According to a control plan*

Remarks: Protect from light, preserve in well-closed containers, at controled room temperature.

Abbreviations: ND: not determined / NA: not applicable

INSOLENT [LABS]

Tryptophane USP poudre
Tryptophane USP powder
Code : 1502110

ATTESTATION ALLERGENES / ALLERGENS STATEMENT

Au regard du Règlement (UE) 1169/2011 ainsi que ses modifications, nous certifions que:

☒ Absence d'allergènes ☐ Présence d'allergènes (préciser ci-dessous)

SOURCE D'ALLERGENES	Présence dans la préparation	
Céréales contenant du gluten et produits à base de ces céréales	☐OUI	☒ NON
Crustacés et produits à base de crustacés	☐OUI	☒ NON
Œufs et produits à base d'œufs	☐OUI	☒ NON
Poissons et produits à base de poissons	☐OUI	☒ NON
Arachides et produits à base d'arachides	☐OUI	☒ NON
Soja et produits à base de soja	☐OUI	☒ NON
Lait et produits à base de lait (y compris le lactose)	☐OUI	☒ NON
Fruits à coque et produits à base de ces fruits	☐OUI	☒ NON
Moutarde et produits à base de moutarde	☐OUI	☒ NON
Céleri et produits à base de céleri	☐OUI	☒ NON
Graines de sésame et produits à base de graines de sésame	☐OUI	☒ NON
Lupin et produits à base de lupin	☐OUI	☒ NON
Mollusques et produits à base de mollusques	☐OUI	☒ NON
Anhydride sulfureux et sulfites en concentration de plus de 10 mg / litre exprimées en SO_2	☐OUI	☒ NON

In accordance with Regulation (EU) 1169/2011 and its modifications, we certify that:

☒ *Without allergens* ☐ *Allergens (specify below)*

ALLERGEN SOURCE	*Presence in the preparation*	
Cereals containing gluten or derived products	☐YES	☒ NO
Crustaceans and derived products	☐YES	☒ NO
Eggs and derived products	☐YES	☒ NO
Fishes and derived products	☐YES	☒ NO
Peanuts and derived products	☐YES	☒ NO
Soybeans and derived products	☐YES	☒ NO
Milk and derived products (including lactose)	☐YES	☒ NO
Tree nuts and derived products	☐YES	☒ NO
Mustard and derived products	☐YES	☒ NO
Celery and derived products	☐YES	☒ NO
Sesame seeds and derived products	☐YES	☒ NO
Lupins and products with lupin	☐YES	☒ NO
Mollusks and products with mollusks	☐YES	☒ NO
The Sulphur Dioxide and Sulphites (E220 to E228) are lower than 10 mg/kg	☒YES	☒ NO

INSOLENT [LABS]

Tryptophane USP poudre
Tryptophane USP powder
Code : 1502110

ATTESTATION DE NON IRRADIATION / NON IONIZED STATEMENT

Le produit et les matières qui le composent n'ont pas été soumis à des rayonnements ionisants conformément aux Directives 1999/2/CE et 1999/3/CE.

According to Directives 1999/2/EC and *1999/3/EC, we confirm that the product and the ingredients used in it have not been subjected to ionizing radiation.*

ATTESTATION OGM / GMO STATEMENT

Conformément aux Règlements 2001/18/CE, 1829/2003/CE et 1830/2003/CE, nous déclarons que le produit ci-dessus n'est pas génétiquement modifié puisqu'il :

- Ne provient pas de substances génétiquement modifiées
- Ne contient pas de supports ou d'additifs génétiquement modifiés.

According to Regulations 2001/18/EC, 1829/2003/EC and 1830/2003/EC and its modifications, we declare that the product above is not genetically modified as it:

- *Does not come from genetically modified raw material*
- *Does not contain any carrier or additive coming from genetically modified organisms.*

ATTESTATION NANOMATERIAUX / NANOMATERIALS STATEMENT

Nous certifions que ce produit est conforme au Règlement n°1169/2011 du Parlement européen et du conseil du 25 octobre 2011 sur la fourniture d'information sur les aliments pour les consommateurs.

We certify that this product is in compliance with Regulation n°1169/2011 of the European parliament and the council of October the 25th 2011, on the provision of food information to consumers.

ATTESTATION EST-ESB / TSE-BSE STATEMENT

Nous certifions que notre produit est conforme à la réglementation européenne relative au risque d'Encéphalopathie Spongiforme Transmissible (EST).

We certify that this product is conform to the European legislation relative to the risk of Transmissible Spongiform Encephalopathy (TSE).

ATTESTATION CONFORMITE EMBALLAGES / PACKAGING STATEMENT

Nous certifions par la présente, que le conditionnement de ce produit satisfait aux législations suivantes :

- Règlement n°10/2011/CE de la Commission du 14 janvier 2011 concernant les matériaux et objets en matière plastique destinés à entrer en contact avec les denrées alimentaires
- Règlement n° 1935/2004/CE du Parlement européen et du conseil du 27 octobre 2004 concernant les matériaux et objets destinés à entrer en contact avec des denrées alimentaires et abrogeant les Directives 80/590/CEE et 89/109/CEE

Hereby, we certify that the packaging used complies with:

- *Commission Regulation n°10/2011/EC dated January the 14th 2011, on plastic materials and articles intended to come into contact with food and its modifications*

INSOLENT [LABS]

PRODUCT SPECIFICATIONS

Product: **RHODIOLA, DRY EXTRACT, 3% ROSAVINS, 1% SALIDROSIDE**
Product Code: N20105101
Botanical name: *Rhodiola rosea*
Plant Part Used: Root
Solubility: Dispersible in water
Description: Light brown powder with characteristic odor and taste**
Observations: Ratio 5:1. Extraction solvent: Ethanol/Water (70/30)

ANALYSIS	SPECIFICATION	METHODS
Identification	Conforms to standard	HPLC
Assay (%)	Min 3,0 Rosavins	HPLC
Assay (%)	Min 1,0 Salidroside	HPLC
Loss on drying (%)	≤ 5,0	Eu. Pharm c.v. (2.8.17)
Total Ash (%)	≤10,0	Eu. Pharm c.v. (2.4.16)
Bulk density (g/ml)	0,4 - 0,6	Eu. Pharm c.v. (2.9.34)
Particle size (%)	100% through 60 mesh	Eu. Pharm c.v. (2.9.12)
Residual solvents		
Ethanol (ppm)	< 5000	Eu. Pharm. v.v. (2.4.24)
Microbiology		
TAMC (cfu/g)	≤ 20000	Eu. Pharm. v.v. (2.6.12)
TYMC (cfu/g)	≤ 200	Eu. Pharm. v.v. (2.6.12)
Bile-tolerant gram-negative bacteria (cfu/g)	≤ 100	Eu. Pharm. v.v. (2.6.31)
Escherichia coli (1 g)	Absence	Eu. Pharm. v.v. (2.6.31)
Salmonella (25 g)	Absence	Eu. Pharm. v.v. (2.6.31)
S. aureus (cfu/g)	Absence	Eu. Pharm c.v. (2.6.31)
Polycyclic aromatic hydrocarbons (PAHs) *		
Benzo(a)pyrene (ppb)	≤10	GC - MS
PAH4 (Sum of (benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene (ppb)	≤ 50,0	GC-MS
Heavy metals*		
Lead (ppm)	≤ 3,0	Eu. Pharm. v.v. (2.4.27)
Arsenic (ppm)	≤ 1,0	Eu. Pharm. v.v. (2.4.27)
Mercury (ppm)	≤ 0,1	Eu. Pharm. v.v. (2.4.27)
Cadmium (ppm)	≤ 1,0	Eu. Pharm. v.v. (2.4.27)
Pesticides*	According to Regulation (EC) Nº 396/2005 and amendments	SANTE/12682/2019
Aflatoxins *		

INSOLENT [LABS]

PRODUCT SPECIFICATIONS

Product: **SAFFRON, DRY EXTRACT, 2% SAFRANAL**
Product Code: N20110251
Botanical name: *Crocus sativus L.*
Plant Part Used: Stigmas
Description: Yellow to red powder with characteristic odor and taste**

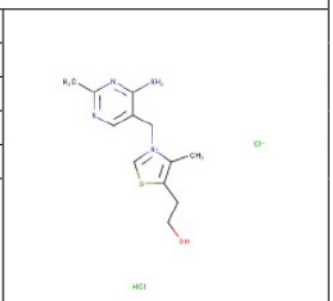
ANALYSIS	SPECIFICATION	METHODS
Assay (%)	Min 2,0 Safranal	Spectrophotometry
Loss on drying (%)	≤ 5,0	Eu. Pharm c.v. (2.8.17)
Bulk density (g/ml)	≥ 0,3	Eu. Pharm c.v. (2.9.34)
Particle size (%)	Min 90% < 250 microns	Eu. Pharm c.v. (2.9.12)
Residual solvents		
Ethanol (ppm)	< 5000	Eu. Pharm c.v. (2.4.24)
Microbiology		
TAMC (cfu/g)	≤ 10000	Eu. Pharm c.v. (2.6.12)
TYMC (cfu/g)	≤ 100	Eu. Pharm c.v. (2.6.12)
Bile-tolerant gram-negative bacteria (cfu/g)	≤ 100	Eu. Pharm c.v. (2.6.31)
Escherichia coli (1 g)	Absence	Eu. Pharm c.v. (2.6.31)
Salmonella (25 g)	Absence	Eu. Pharm c.v. (2.6.31)
Polycyclic aromatic hydrocarbons (PAHs) *		
Benzo(a)pyrene (ppb)	≤10	GC - MS
PAH4 (Sum of (benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene (ppb)	≤ 50	GC-MS
Heavy metals*		
Lead (ppm)	≤ 3,0	Eu. Pharm c.v. (2.4.27)
Arsenic (ppm)	≤ 2,0	Eu. Pharm c.v. (2.4.27)
Mercury (ppm)	≤ 0,1	Eur. Pharm. (2.4.27)
Cadmium (ppm)	≤1,0	Eu. Pharm c.v. (2.4.27)
Pesticides*	According to Regulation (EC) Nº 396/2005 and amendments	SANTE/12682/2019

Storage: Store in dry place and keep away from strong light and heat
Country of origin: Spain
Observations: * These parameters are determined in every three batches and at least once a year according to the sampling plan established in our HACCP system. **This is an herbal product; therefore, it is subject to color variations from batch to batch derived from natural, raw material color deviations. Color change has no effect on the quality, purity, potency, chemical profile or efficacy of the product.

INSOLENT [LABS]

Vitamin B1 HCl (Thiamine hydrochloride)

SPECIFICATION DATA

Nom chimique / ***Chemical Name***	3-[(4-Amino-2-methyl-5-pyrimidinyl)-methyl]-5-(2-hydroxy-ethyl)-4-methylthiazolium chloride hydrochloride		
Numéro CAS / ***CAS number***	67-03-8		
Numéro EINECS / ***EINECS number***	200-641-8		
Masse Molaire / ***Molecular mass***	337.27 g/mol		
Formule brute / ***Molecular Formula***	$C_{12}H_{11}ClN_4OS.HCl$		
Conformité / ***Compliance***	BP, USP, EP, FCC		
Utilisation possible / ***Use***	Alimentation humaine, complements alimentaire, alimentation infantile Alimentation animale (3a820,2b16027)	Food use, food supplement, baby food Feed use (3a820, 2b16027)	

Apparence / ***Appearance***	Poudre cristalline	Crystalline powder
Odeur, couleur, goût / ***Odor, color, taste***	Blanc ou presque blanc	White or almost white
Solubilité / ***Solubility***	Très soluble dans l'eau Soluble dans le glycerol Peu soluble dans l'alcool	Freely soluble in water Soluble in glycerol Slightly soluble in alcohol
Excipient / ***Carrier***	/	None

	Méthode d'analyses ***Analysis method***	***Fréquence d'analyse*** ***Frequency of analysis***	***Spécifications*** ***Specifications***
Teneur/ ***Assay***	USP	Chaque lot / Each batch	98.5 – 101.0%
Perte à la dessication/ ***Loss on drying***	USP	Chaque lot / Each batch	≤ 5.0%
Cendres / ***Residue on ignition***	USP	Chaque lot / Each batch	≤ 0.1%
pH	USP	Chaque lot / Each batch	2.7 – 3.3
Pouvoir rotatoire / ***Specific rotation***			
Point de fusion / ***Melting point***			
Identification / ***Identification***	USP (reaction with chlorides) FCC (IR)	Chaque lot / Each batch Chaque lot / Each batch	Positive reaction Consistent with the reference IR spectra
Granulométrie / ***Particle size***	/	/	90% through 80 mesh
Densité / ***Bulk density***	/	/	0.2 g/ml
Autres / ***Other***			
- Sulfates / ***Sulphates***	USP	Chaque lot / Each batch	≤ 300 ppm
- Absorbance de la solution / ***Absorbance of solution***	USP	Chaque lot / Each batch	≤ 0.025
- Apparence de la solution / ***Appearance of solution***	BP	Chaque lot / Each batch	The solution is clear and not more intensely coloured than reference Y7 or GY7

Vitamin B1 HCl (Thiamine hydrochloride)

- Substances liées / ***Related substances***			
Impureté A / ***Impurity A***	BP	Chaque lot / Each batch	≤ 0.15%
Impureté A / ***Impurity A***	BP	Chaque lot / Each batch	≤ 0.3%
Impureté A / ***Impurity A***	BP	Chaque lot / Each batch	≤ 0.15%
Autre impureté / ***Any Impurity***	BP	Chaque lot / Each batch	≤ 0.1%
Impuretés totales / ***Total Impurities***	BP	Chaque lot / Each batch	≤ 0.5%
- Pureté chromatographique / ***Chromatographic purity***	USP	Chaque lot / Each batch	≤ 1%
- Solvants résiduels / ***Residual Solvants***	USP	Chaque lot / Each batch	Methanol ≤ 0.3% Ethanol ≤ 0.5%
- Limite en nitrates / ***Limit of nitrates***	USP	Chaque lot / Each batch	No brown ring produced at the juncrion of the two layers
Métaux lourds totaux / ***Total heavy metals***			
Arsenic / ***Arsenic***	ICP/MS	Chaque lot / Each batch	≤ 1 ppm
Plomb / ***Lead***	ICP/MS	Chaque lot / Each batch	≤ 2 ppm
Cadmium / ***Cadmium***	ICP/MS	Chaque lot / Each batch	≤ 1 ppm
Mercure / ***Mercury***	ICP/MS	Chaque lot / Each batch	≤ 0.1 ppm
Aluminium / ***Aluminium***			
Flore totale / ***Total plate count (CFU/g)***	CHP 2020	Chaque lot / Each batch	≤ 1000
Levures et moisissures/***Yeast & mold (CFU/g)***	CHP 2020	Chaque lot / Each batch	≤ 100
Enterobacteria			
E. coli	CHP 2020	Chaque lot / Each batch	Absent/10g
Salmonella	CHP 2020	Chaque lot / Each batch	Absent/10g
Staphylococcus aureus	CHP 2020	Chaque lot / Each batch	Absent/10g
Listeria monocytogenes			
Is the product a part of the monitoring plan?	No ☒ Yes ☐ for some microbiological and heavy metals parameters.		
Conditions d'entreposage/***Storage conditions (T°...)***	Stocker dans un emballage fermé, à température ambiante (10-30°C), l'abri de la lumière, de l'humidité (HR 70-80%)et de sources de chaleur. / Keep in well-closed containers under room temperature (10-30°C) away from light humidity (RH 70-80%) and heat sources.		
Conditionnement / ***Packaging***	Fut de 25kg / 25kg fiber drum		
Durée de conservation / ***Shelf life***	3 ans / 3 years		

INSOLENT [LABS]

Riboflavin (VIT B2)

Product SPECIFICATION

Product Name	Riboflavin (VIT B2)
INCI Name	riboflavin
EINECS Number	201-507-1
CAS Code	83-88-5

Appearance	Yellow or orange-yellow crystalline powder
Identification	Positive
Assay (%)	98.0~102.0
Specific rotation (º)	-115~-135
Loss on drying (%)	1.5 max
Residue on ignition (%)	0.3 max
Lumiflavin	440 nm Absorbance 0.025 max
Total plate count (cfu/g)*	10000 max
Yeast and Mold (cfu/g)*	100 max
Salmonella*	Absent in 10g
E. Coli*	Absent in 1g
Enterobacteriaceaes*	Absent in 1g
Staphylococcus aureus*	Absent in 1g
Arsenic (mg/kg)*	1 max
Cadmium (mg/*	1 max
Lead (Pb) (mg/kg)*	3 max
Mercury (mg/kg)*	0.1 max

INSOLENT [LABS]

Riboflavin (VIT B2)

TECHNICAL PRODUCT INFORMATION

IUPAC name	3,10-dihydro-7,8-dimethyl-10-[(2S,3S,4R)-2,3,4,5-tetrahydroxypentyl]-ben-zopteridine-2,4-dione
Molecular Formula	C17H20N4O6
Molecular mass	376.4
Raw materials used and their function	Rice which is fermentation material
Frequency of analysis of each contaminant?	Every batch
Frequency of analysis of each heavy metals?	Every batch, Every batch
Frequency of analysis of microbiology?	Every batch, Every batch

INSOLENT [LABS]

Riboflavin (VIT B2)

BSE/TSE

The product does not contain and is not derived from Specified Risk Material as defined in Commission Directive European and it is conform to the EU legislation relating to the risk of Transmission of Spongiform Encephalopathy (TSE).

GMO

Following EU regulations have been published in the Official Journal of the European Union:
- Regulation (EC) No.1829/2003 of the European Parliament and the Council of 22nd September 2003 on genetically modified food and feed
- Regulation (EC) No.1830/2003 of the European Parliament and the Council of 22nd September 2003 concerning tractability and labeling on genetically modified organisms and tractability of food and feed products produced from genetically modified organisms and amending Directive 2001/18/EC.
This product has not been genetically modified so there is no obligation of GMO labeling as defined by the above mentioned regulations.

NON IRRADIATION/NON IONIZED

According to directives 1992/2/EC and 1999/3/EC, We confirm is not made from irradiated/ionized raw materials or was irradiated/ionized the product.

INSOLENT [LABS]

Riboflavin (VIT B2)

FACTORY ACCREDITATIONS/CERTIFICATIONS

ISO 9001	Yes
Other accreditations/certifications	Halal, Kosher, IP

INSOLENT [LABS]

azinvit®

VITAMIN B3, NICOTINAMIDE

Product information:

Product name	Nicotinamide
Chemical formula	$C_6H_6N_2O$
Cas number	98-92-0
Reference	EP

Test parameter:	**Specification:**
Appearance	A white or almost white, crystalline powder or colourless crystals, freely soluble in water and in anhydrous ethanol, slightly soluble in methylene chloride
Appearance of solution	Solution should be clear and not more intensely coloured than reference solution BY7
Odour test by NaOH	Passes test
Colour test	Passes test
Identification	(A) Melting point: 128 – 131°C (B) IR: complies (C) Thin-Layer chromatography: The principal spot in the chromatogram obtained with the test solution is similar in position and size to the spot in the chromatogram obtained with the reference solution
Assay	99 – 101%
Loss on drying	Max. 0,5%
Sulfated ash	Max. 0,10%
pH	6 – 7,5
Related substances	
Unspecified impurity	Max. 0,1%
Total impurity	Max. 0,2%
Heavy metals (as Pb)	Max. 20 ppm

Additional information:

Shelf life	5 years
Storage	Store in its original, unopened packaging in a cool, dry and well-ventilated place
Packaging	25kg bags
Application	Nutritional

INSOLENT [LABS]

PRODUIT
Product Details

CAS N°	59-30-3
Scientific name	Folic acid

DONNEES ANALYTIQUES
Analytical data

Analysis	**Specification**
Appearance	Yellow or Orange crystalline powder
Loss on Drying	NMT 8.5%
Sieve Analysis	NLT 96% through 100 mesh
Sulphated ashes	NMT 0.3%
Solubility	About 1.6mg dissolves in 1mL of water. Insoluble in acetone, alcohol, chloroform and ether. Dissolves in solution of alkali hydroxides and carbonates
Assay	95.0-102.0%
Testing Method	FCC9
pH	4.0-4.8
Métaux lourds / Pureté (Heavy Metals / Purity)	
Heavy Metals	NMT 10ppm
Lead (Pb)	NMT 3ppm
Arsenic (As)	NMT 2ppm
Cadmium (Cd)	NMT 1ppm
Mercury (Hg)	NMT 0.1ppm
Microbiologie (Microbiology)	
Total Plate Count	NMT 20 000 cfu/g
Yeast & Mould	NMT 200 cfu/g
Salmonella*	Negative in 25g
Données réglementaires (regulatory data)	
Ce produit est destiné à être utilisé dans des compléments alimentaires. Il appartient au client de vérifier ses conditions d'utilisation selon les règlementations en vigueur.	
This product is intended to be used in food supplements. It is up to the final user to determine its terms of use, according to the applicable regulations.	

Conservation et durée optimale d'utilisation (Storage & Shelf life)

Packaging	Suitable for food industry
Storage	In a cool and dry place away from light, humidity and heat sources. Do not freeze
Shelf life	3 years if stored in accordance with recommendations

**According to control plan*

INSOLENT [LABS]

Certificat Non OGM
GMO free certificate

Par la présente, nous certifions que la matière première ci-dessous est garantie sans OGM.

Vitamin B9

The product above does not have to be declared or labelled as « GMO », containing or consisting of GMO's or produced from GMOs in accordance with Regulations (EC) No. 1829/2003 and 1830/2003 on genetically modified food and feed.

- Regulation (EC) No.1829/2003 of the European Parliament and the Council of 22nd September 2003 on genetically modified food and feed
- Regulation (EC) No.1830/2003 of the European Parliament and the Council of 22nd September 2003 concerning tractability and labeling on genetically modified organisms and tractability of food and feed products produced from genetically modified organisms and amending Directive 2001/18/EC.

Certificat de Non Irradiations
Irridiated free certificate

Par la présente nous certifions que le produit ci-dessous n'a pas été irradié

Vitamin B9

We hereby certify that the product above has not been irradiated.

- According to directives 1992/2/EC and 1999/3/EC

INSOLENT [LABS]

azinvit®

VITAMIN B12, METHYLCOBALAMIN

Product information:	
Product name	Vitamin B12, Methylcobalamin
Formula	$C_{63}H_{91}CoN_{13}O_{14}P$
Cas Number	13422-55-4
Reference	JP

Test parameter:	**Specification:**
Description	Dark red crystals or crystalline powder
Clarity and colour of solution	Clear solution, red colour
Identification	(1) UV: Compare the spectrum with the reference spectrum, both spectra exhibit similar intensities of absorption at the same wavelengths (2) Cobalt: meets JP requirement
Assay (anhydrous basis)	98,5% – 101%
Related substances	Each area of the peaks other than methylcobalamin is not more than 0,5% of the peak area of methylcobalamin The total area of the peaks other then methylcobalamin is not more than 2,0%
Water	Max. 11,5%
Residual solvents	
Acetone	Max. 5 000 ppm
Microbiological analysis:	
Total aerobic plate count	Max. 1 000 CFU/g
Yeast & mould	Max. 100 CFU/g

Additional information:	
Shelf life	3 years
Storage	Store in its original unopened packaging, in a dry and cool, well-ventilated place
Packaging	0,5 kg/tin
Application	Nutritional use

INSOLENT [LABS]

TECHNICAL DATA SHEET

Content : Organic Acacia Seyal gum purified and instantised (soluble dietary fibre)

Legal position : Regulations 231/2012/EC, USP/NF, FCC, Eur.Ph / Regulation (EC) 834/2007/EC and USDA-NOP (Certified by ECOCERT FR-BIO-01)

Standard Packaging : Net 25 kg multilayer paper bag with inner polyethylene liner

Maximum Storage : 3 years

Storage Condition : Keep closed in a cool and dry place in original intact packaging

MATERIAL CHARACTERISTICS

Physical and chemical data

Analysis	Description	MINI	MAXI	UNIT	Test Method
Moisture	5h @ 105°C		10	%	USP <921> Method III
Colour @ 25%	Aqueous solution 25% - Lovibond AF900	Brown		-	-
pH	25% aqueous solution, @ 20°C	4,1	4,8	-	Eur. Ph. 2.2.3
Viscosity 25%	25%, Brookfield LVF 60 rpm @ 20°C	60	130	mPa.s	-
Total Ashes @ 600°C	8h @ 600°C		4	%	Eur. Ph.
Acid insoluble ashes	Ashes + acid hydrolysis		0,5	%	USP<561>
Acid insoluble matters	Gravimetric determination after acid hydrolysis		0,5	%	-
Total dietary fibre (on dry weight)	Enzymatic & gravimétric	90		%	AOAC 985.29
Mesh size powder through 63 µm	Vibro - sieving		15	%	-
Glucose and Fructose*	Chromatography	Pass test		-	Eur. Ph.
Starch, Dextrin and Agar*	Iodine solution test	Pass test		-	Eur. Ph.
Sterculia gum*	Eur. Ph (A-B)	Pass test		-	Eur.Ph
Tragacantha*	Chromatography	Pass test		-	HPLC
Identification test*	Eur. Ph (A-B-C-D)	Pass test		-	Eur. Ph
Tannin test*	reaction with ferric chloride solution	Pass test		-	Eur, Ph
Solubility and reaction*	solution in water	Pass test		-	USP

Total heavy metal*			5	ppm	FCC (Method 2)
Arsenic*	ICP-Mass spectrometry		0,5	ppm	ICP -OES/ICP-MS
Lead*	ICP-Mass spectrometry		0,1	ppm	ICP -OES/ICP-MS
Mercury*	Atomic Absorption spectrometry		0,1	ppm	SAA / ICP-MS
Cadmium*	ICP-Mass spectrometry		0,1	ppm	ICP -OES/ICP-MS
Bacteriology					
Analysis	**Description**	**MINI**	**MAXI**	**UNIT**	**Test Method**
Total Plate Count	72 h @ 30°C - PCA		1000	cfu/g	ISO 4833-1
Yeast	5 days @ 25°C - YGC		100	cfu/g	ISO 6611
Molds	5 days @ 25°C - YGC		100	cfu/g	ISO 6611
E. coli (test for the presence of)	48 h @ 44°C - EP without indole + Kovacs reagent	abs	/5g	-	ISO 7251
Salmonella (presence)	Pre-enrichment, 24 h @ 41°C	abs	/25g	-	ISO 6579-1

INSOLENT [LABS]

TRYPTODC002 – L-TRYPTOPHAN GRANULAR

INFORMATIONS SUR LE PRODUIT
PRODUCT INFORMATION

Substance	L-tryptophan granular
CAS N°	73-22-3
Molecular formula	$C_{11}H_{12}N_2O_2$
Origin Natural from	Fermentation
ANALYTICAL DATA	
Appearance	White to yellowish-white granular
Assay	NLT 95%
Granulation carrier	0-5% HMPC (depends on source)
Particle size	Average 20-40 mesh (*indicative information*)
Loss on drying	NMT 2%
Residue on ignition	NMT 1%
STORAGE CONDITION – SHELF LIFE	
Packaging	Suitable for food industry
Storage conditions	Store at temperature below 25°C, in a well closed bag away from moisture and direct sun light
Shelf life	1-3 years if stored in accordance with recommendations
Batch size	Batch size depends of our suppliers and of customer order (kg to tons)

INSOLENT [LABS]

TRYPTODC002 – L-TRYPTOPHAN GRANULAR

PRODUCT IMPURITIES*

Contaminants and residues		Analysis		Not tested	Content- limit
		Each batch	Control plan		
Heavy metals	Lead (Pb)	☐	☒	☐	<3ppm
	Cadmium (Cd)	☐	☒	☐	<1ppm
	Mercury (Hg)	☐	☒	☐	<0.1ppm
	Arsenic (As)	☐	☒	☐	<1ppm
Microbiological control	Total plate count	☐	☒	☐	<1 000 cfu/g
	Yeast & moulds	☐	☒	☐	<100 cfu/g
	Bile tolerant gram – bacteria (enterobacteria)	☐	☐	☒	-
	E. coli	☐	☒	☐	Negative/g
	Salmonella	☐	☒	☐	Negative/25g
	Staphylococcus aureus	☐	☒	☐	Negative/g
	Others ...	☐	☐	☒	-
Contaminants control	Residual solvent ...	☐	☐	☒	-
	Pesticides	☐	☐	☒	-
	Aflatoxin B1	☐	☐	☒	-
	Sum of B1, B2, G1, G2	☐	☐	☒	-
	Ochratoxin A	☐	☐	☒	-
	Dioxins and PCBs	☐	☐	☒	-
	Benz(o)apyrene	☐	☐	☒	-
	Sum of PAH (benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene)	☐	☐	☒	-
	Melamine and its structural analogues	☐	☐	☒	-
	Other contaminants :				
	Pyrrolizidine alkaloids	☐	☐	☒	-
	3-MCPD (3-monochloro-propanol-1,2-diol)	☐	☐	☒	-

INSOLENT [LABS]

TRYPTODC002 – L-TRYPTOPHAN GRANULAR

ATTESTATIONS - *STATEMENTS*

GMOs FREE STATEMENT

According to the manufacturer's declaration and to the European Regulations:
- Regulation (EC) No. 1829/2003 of the European Parliament and of the Council of 22 September 2003 on genetically modified food and feed
- Regulation (EC) No. 1830/2003 of the European Parliament and of the Council of 22 September 2003 concerning tractability and labelling on GMOs and tractability of food and feed products produced from GMOs and amending Directive 2001/18/EC

GMOs FREE	☒ **Yes**	☐ **No**

If no, name and quantity (%):

NON-IRRADIATION STATEMENT

According to the manufacturer's declaration and to the European Directive 1999/2/EC and 1999/3/EC of the European Parliament and of the Council:

NON-IRRADIATION	☒ **Yes**	☐ **No**

BSE/TSE FREE STATEMENT

According to the manufacturer's declaration:

BSE/TSE FREE	☒ **Yes**	☐ **No**

NANOMATERIALS FREE STATEMENT

According to the manufacturer's declaration and to the EU Regulation No 2015/2283 of the European Parliament and of the Council of 25 November 2015:

NANOMATERIALS FREE	☒ **Yes**	☐ **No**

INSOLENT [LABS]

TRYPTODC002 – L-TRYPTOPHAN GRANULAR

Country	Source	Authorized	Minimal daily intake	Maximal daily intake	Conditions
Belgium	Royal decree 30 May 2021 nutrients (replacing Royal decree 03/03/92 as amended)	Authorized			Only tryptophan from protein hydrolysis is authorized. Doctrine Foodsup: Tryptophan from fermentation process is forbidden.
France	Decree 2006-352, Regulation 609/2013 (replacing R egulation (EC) N° 953/2009), doctrine (dose)	L-tryptophan		≤ 220 mg	For amino acids, as far as applicable, also the sodium, potassium calcium and magnesium salts as well as their hydrochlorides may be used.
Germany					
Italy	Positive list, List of other substances September 2019, Regulation 609/2013	L-tryptophan			Essential amino acids: Warning: "Must not be consumed by pregnant women or children, or for prolonged periods without medical supervision"; all essential amino acids must be present (histidine may be considered optional); Possible indication: contributes to meeting protein/nitrogen requirements. For amino acids, as far as applicable, also the sodium, potassium calcium and magnesium salts as well as their hydrochlorides may be used.

Information given as an indication according to our current knowledge only for Belgian, German, French and Italian regulations. This product is intended to be used in food supplements. It is up to the final user to determine its terms of use, according to the applicable regulation