

# Chios Mastiha (Gum Mastic) Powder

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Pages: 4

## Certificate of Analysis

Manufacturer/Supplier: CHIOS GUM MASTIC GROWERS ASS.  
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|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT</b>           | "Chios Mastiha Powder" is a powder consists of Chios Gum Mastic (Chios Mastiha). The main component of this product is Chios Gum Mastic the air-dried, resinous exudation from P. Lentiscus L. (Family Anacardiaceae), a shrub of small evergreen tree that is native to the Mediterranean region and principally cultivated on the Greek island of Chios. Chios Gum Mastic is <b><u>100% natural product</u></b> and does not contain any harmful substance or any additives. |
| <b>PRODUCT CODE</b>      | MAS - 0047                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>BATCH No.</b>         | 685676                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ORDER DATE</b>        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>PURCHASE ORDER No</b> | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>COUNTRY OF ORIGIN</b> | Greece                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>BEST BEFORE</b>       | 06/2028                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MASTIHA FDA NO</b>    | 12856717798                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Typical Composition

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VAT: EL 096000437

LOT no 685676

Mastic gum : 100%

**CAS Name:** Mastic Gum  
**CAS Number:** 061789-92-2

### Identification Method (Mastic)

The starting material used to produce this product is identified according to the current Ph. Eur. monograph for Mastic by a lab authorized by the Greek Organization of Medicine.

|                                                                       | Method of analysis                                                | Specification Limits / results                                                     |
|-----------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Identification                                                        | TLC                                                               | Appearance of six coloured zones according to Ph. Eur.                             |
| DNA test                                                              | DNA Analysis for the identification of the species in gum samples | Correspondence to the trnL region of Pistacia Lentiscus according to NCBI database |
| Quantification of Masticdienonic (M) and Isomasticdienonic acid (ISO) | HPTLC                                                             | > 12%                                                                              |

### Microbiological Parameters

|                               | Method of analysis               | Specification Limits | Batch Values |
|-------------------------------|----------------------------------|----------------------|--------------|
| Total Aerobic Microbial Count | European Pharmacopoeia 10/2.6.12 | < 1000 cfu/g         | conforms     |
| Total Yeast and Mould Count   | European Pharmacopoeia 10/2.6.12 | < 100 cfu/g          | conforms     |
| E-Coli                        | European Pharmacopoeia 10/2.6.13 | Absent in 1g         | conforms     |
| Staphylococcus aureus         | European Pharmacopoeia 10/2.6.13 | Absent in 1g         | conforms     |
| Salmonella spp.               | European Pharmacopoeia 10/2.6.13 | Absent in 10g        | conforms     |
| Enterobacteria                | European Pharmacopoeia 10/2.6.13 | < 100cfu/g           | conforms     |

### Heavy metals

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|         | Method of analysis | Specification Limits | Batch Values               |
|---------|--------------------|----------------------|----------------------------|
| Cadmium | ICP-MS             | <0.05 ppm            | Below specification limits |
| Lead    | ICP-MS             | <0.2 ppm             | Below specification limits |
| Mercury | ICP-MS             | <0.05 ppm            | Below specification limits |
| Arsenic | ICP-MS             | <0.05 ppm            | Below specification limits |

### Agrochemicals – agricultural drugs

The starting material used to produce this product is tested for pesticide residues on batch basis and complies with the general requirements of Ph. Eur. for Pesticide Residues

|                                          | Method of analysis | Specification Limits | Batch Values |
|------------------------------------------|--------------------|----------------------|--------------|
| Drugs in Page 4,mg/kg                    | GC & LC – MS/MS    | <0.01                | <0.01        |
| Dithiocarbamates mg CS <sub>2</sub> / kg | MTD pest. 100      | <0.2                 | <0.2         |

(\*)The product is compliant with the requirements of the current Ph. Eur. Monograph for Pesticide Residues.

**When a parameter is not mentioned or when no result is entered for a parameter, CHIOS MASTIHA GROWERS ASSOCIATION certifies that the product contained in this shipment meets and conforms to all requirements of the agreed specification**

**Ioannis Benovias**  
Chemist M.Sc  
QUALITY DPT.

This product corresponds with the regulations of the European food legislations. This specification is carefully drawn up and represents our current knowledge. However, we are not liable for any damage resulting from wilful acts or gross negligence. We guarantee therefore a proper quality within our general conditions of sales.

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**LIST OF AGRICULTURAL DRUGS TESTED by GC/MS-MS & LC/MS-MS**

| Compound Name               | Compound Name             | Compound Name          | Compound Name             | Compound Name          | Compound Name             |
|-----------------------------|---------------------------|------------------------|---------------------------|------------------------|---------------------------|
| Abamectin                   | Coumaphos                 | Ethirimol              | Imidacloprid              | Naurimol               | Quizalofop                |
| Acephate                    | Crimidine                 | Ethofumesate           | Indoxacarb                | Ofurace                | Quizalofop-p tefuryl      |
| Acetamidrid                 | Cyanazine                 | Ethoprophos            | Iodothiophos              | Omethoate              | Quizalofop-P-ethyl        |
| Acetochlor                  | Cyanophos                 | Ethoxyquin             | Iodosulfuron-methyl       | o-Phenylphenol         | Resmethrin *              |
| Acibenzolar-S-methyl        | Cyazofamid                | Etofenprox             | Ioxynil                   | Oxadiazon              | Rimsulfuron               |
| Aclonifen                   | Cycoate                   | Etoazale               | Ioxynil-octanoate         | Oxadixyl               | Rotenone                  |
| Acrinathrin                 | Cycoxydim                 | Etridiazole            | Iprobenphos               | Oxamyl                 | S 421                     |
| Alachlor                    | Cyflufenamid              | Etrinfos               | Iprodione                 | Oxathiapiprolin        | Sethoxydim (2 isomers)    |
| Aldicarb                    | Cyfluthrin, 4 isomers     | Famoxadone             | Iprovalicarb              | Oxydemeton - Me        | Simazine                  |
| Aldicarb sulfone            | Cyhalothrin - λ           | Famphur                | IR 3535                   | Oxyfluorfen            | Spinetoram (2 isomers)    |
| Aldicarb sulfoxide          | Cymoxanil                 | Fenamidone             | Iazophos                  | Paclobutrazol          | Spinosad (2 isomers)      |
| Aldrin                      | Cypermethrin, 4 isomers   | Fenamiphos             | Isoacarbophos             | Paraoxon ethyl         | Spirodiclofen             |
| Allethrin                   | Cyproconazole             | Fenamiphos sulfone     | Isodrin                   | Paraoxon methyl        | Spiromesifen              |
| Ametoctradin                | Cyproconazole             | Fenarimol              | Isofenphos                | Parathion              | Spirotetramat             |
| Ametryn                     | Cyprodial                 | Fenazaquin sulfoxide   | Isofenphos-methyl         | Parathion ethyl        | Spirotetramat-mono-OH     |
| Amisulbrom                  | Cymoxazine                | Fenbuconazole          | Isofetamid                | Parathion-methyl       | Spiroxamine (2 isomers)   |
| Amitraz                     | 2,4-D **, *               | Fenclorophos           | Isoprocab                 | Pebulate               | Sulfentrazon              |
| 9,10-Anthraquinone          | DBCP                      | Fenhexamid             | Isopropalin               | Penconazol             | Sulfotep                  |
| Atrazine                    | DDT / 5 isomers           | Fenitrothion           | Isoptrothione             | Pendimethalin          | Sulfosaxiflor             |
| Azaconazole                 | DEET                      | Fenoxaprop-P-ethyl     | Isoptroturon              | Pentachloranisole      | Sulphophos                |
| Azinphos-ethyl              | 2,4-D-ethyl-hexyl         | Fenoxycarb             | Isoxaflutole              | Pentachloroaniline     | 2,4,5-T *                 |
| Azinphos-methyl             | Deltamethrin              | Fenpropathrin          | Jasmodin I                | Penthiopyrad           | Tebuconazole              |
| Azoxystrobin                | Demeton O/S               | Fenpropidin            | Jasmodin II               | Permethrin I+II        | Tebufenozide              |
| Benalaxyl                   | Demeton-S-methyl          | Fenpropiomorph         | Kresoxim methyl           | Perthan                | Tebufenpyrad              |
| Bendiocarb                  | Demeton-S-methyl sulfone  | Fenpyroximate          | Lenacil                   | Phenmedipham           | Tecnazene                 |
| Bentfluralin                | Desmedipham               | Fenson                 | Leptophos                 | Phenothoate            | Teflubenzuron             |
| Benthiavalicarb isopropyl   | Desmethrin                | Fensulfothion          | Linuron                   | Phorate                | Tefluthrin mix, 2 isomers |
| Bifenazate                  | Desmethyl-form-pirimic    | Fenthion               | Lufenuron                 | Phorate sulfone        | Tepraloxymid              |
| Bifenox                     | Desmethyl-pirimicarb      | Fenthion oxon          | Malaoxon                  | Phorate sulfoxide      | Terbacil                  |
| Bifenthrin                  | Diazinon                  | Fenthion sulfone       | Malathion                 | Phosalone              | Terbufos                  |
| Biphenyl (diphenyl)         | Dibrom (Naled)            | Fenthion sulfoxide     | Mandipropamid             | Phosmet                | Terbufos sulfone          |
| Bitertanol, 2 isomers       | Dichlobenil               | Fenvalerate, 2 isomers | MCPA *, **                | Phosmet oxon           | Terbufos sulfone          |
| Boscalid                    | 4,4-Dichlorobenzophenone  | Fipronil               | MCPA-ethyl-hexyl          | Phosphamidon           | Terbufos sulfoxide        |
| Bromacil                    | Dichlorfenthion           | Fipronil sulfone       | MCPA-methyl               | Phoxim                 | Terbutometon              |
| Bromocyclen                 | Dichloflumid              | Flonicamid             | MCPA-thioethyl            | Phthalimide            | Terbutylazine             |
| Bromophos-ethyl             | Dichlorprop *, **         | Florasulam             | Mecarbam                  | Picardin (Icaridin)    | Terbutyn                  |
| Bromophos-methyl            | Dichlorvos                | Fluazifop              | Mecoprop **               | Picolinafen            | Tetrachlorvinphos         |
| Bromopropylate, 2 isomers   | Diclobutrazol mix         | Fluazifop butyl        | Mefenpyr-dietyl           | Picoxystrobin          | Tetraconazol              |
| Bromoxynil                  | Diclofop-methyl           | Fluazinam              | Mepanipyrim               | Pinoxaden              | Tetradifon                |
| Bromuconazole (2 isomers)   | Dicloran                  | Flubendiamide          | Mepromil                  | Piperonyl butoxide     | Tetramethrin, 2 isomers   |
| Bupirimate                  | Diclorophos               | Fluchloralin           | Mesosulfuron-methyl       | Pirimicarb             | Tetraul                   |
| Buprofezin                  | Dieldrin                  | Flucytrinate           | Mesotrione                | Pirimiphos ethyl       | Thiabendazol              |
| Butafenacil                 | Diothofencarb             | Fludioxonil            | Metaflumizone (2 isomers) | Pirimiphos methyl      | Thiacloprid               |
| Butoxycarboxim sulfoxide    | Difenoconazole, 2 isomers | Flufenacet             | Metalaxyl                 | Prochloraz             | Thiamethoxam              |
| Butralin                    | Diflubenfurone            | Flufenoxuron           | Metalaxyl-M               | Procyimidone           | Thifensulfuron-methyl     |
| Cadusaphos                  | Diffufencan               | Flumetralin            | Metazachlor               | Profenofos             | Thiodicarb                |
| Captan                      | Dimetfox                  | Flumioxazine           | Metconazole               | Profluralin            | Thiofanox                 |
| Carbaryl                    | Dimethenamid              | Fluometuron            | Methabenzthiazuron        | Profoxydim (2 isomers) | Thiofanox sulfone         |
| Carbendazim, Benomyl        | Dimethipin                | Fluopicolide           | Methacriphos              | Promecarb              | Thiofanox sulfoxide       |
| Carbofuran                  | Dimethoate                | Fluopyrim              | Methamidophos             | Prometryn              | Thionazin                 |
| Carbofuran 3-OH             | Dimethomorph (2 isomers)  | Fluorotrimazol         | Methidathion              | Propachlor             | THPI                      |
| Carbophenothion             | Dimoxystrobin             | Flupyradifurone        | Methiocarb                | Propamocarb            | Tolclofos-methyl          |
| Carboxin                    | Diniconazole              | Fluquinconazole        | Methiocarb sulfone        | Propanil               | Tolfeppyrad               |
| Carfentrazon ethyl          | Dinitramine               | Flusilazol             | Methiocarb sulfoxide      | Propaquizafop          | Tolyfluamid               |
| Chinomethionat              | Dinotefuran               | Flutianil              | Methomyl                  | Propargite             | Traloxymid                |
| Chlorantraniliprole         | Diphenamid                | Flutolanil             | Methoprene                | Propazine              | Trakomethrin              |
| Chloridane cis / trans      | Diphenylamine             | Flutriafol             | Methoprotynne             | Propetamphos           | Transfluthrin             |
| Chlorfenapyr                | Dipropetyn                | Fluxapyroxad           | Methoxychlor              | Propham                | Triadimenol               |
| Chlorfenson (Ovex)          | Disulfoton                | Folpet                 | Methoxyfenozide           | Propiconazole          | Triadimenol (2 isomers)   |
| Chlorfenvinphos (2 isomers) | Disulfoton sulfone        | Fonofos (dylfonate)    | Metolachlor               | Propoxur               | Tri-allate                |
| Chloridazon                 | Disulfoton sulfoxide      | Forchlorfenuron (CPPU) | Metolachlor               | Propryzamide           | Triasulfuron              |
| Chlorobenzilate             | Ditalimfos                | Formetanate            | Metolachlor               | Proquinazid            | Triazophos                |
| Chloroneb                   | Diuron                    | Formothion             | Metribuzin                | Prosulfocarb           | Tribenuron-methyl         |
| Chlorothalonil              | DMF                       | Fosfiazate             | Metsulfuron-methyl        | Prothiofos             | Trichlorfon               |
| Chlorpropham                | DMPF                      | Fuberidazol            | Mevianphos, 2 isomers     | Pymetrozin             | Trichloronat              |
| Chlorpyrifos-ethyl          | DMST                      | Furalaxyl              | Mirex                     | Pyraclostrobin         | Triclopyr                 |
| Chlorpyrifos-methyl         | Dodemorph                 | Furathiocarb           | Monocrotophos             | Pyrazophos             | Tricyclazol               |
| Chlorosulfuron              | Dodine                    | Haloxystop             | Moniluron                 | Pyrethrin I            | Trifloxystrobin           |
| Chlorthal-dimethyl          | Emamectin benzoate        | Haloxystop-P-methyl    | Myclobutanyl              | Pyrethrin II           | Triflumizole              |
| Chlorzoline                 | Endosulfan sulfate        | HCH-α, -β, -γ & δ      | Napropamid                | Pyridaben              | Triflumuron               |
| Cinerin I                   | Endosulfan-α & -β         | Heptachl. epoxide endo | Neburon                   | Pyridalyl              | Trifluralin               |
| Cinerin II                  | Endrin                    | Heptachl. epoxide endo | Nicosulfuron              | Pyridaphenthion        | Triticonazol              |
| Clethodim                   | EPN                       | Heptachlor             | Nicopyrim                 | Pyrifenoxy, 2 isomers  | Trisulfuron               |
| Climbazol                   | Epoxiconazole             | Heptenophos            | Nitralin                  | Pyrimethanil           | Uniconazol-P              |
| Clodinafop propargyl        | EPTC                      | Hexachlorobenzene      | Nitrapyrin                | Pyriofenone            | Validenolate (2 isomers)  |
| Clofentezine                | Etaconazol, 2 isomers     | Hexafluoruron          | Nitrofen                  | Pyriproxyfen           | Vamidothion               |
| Clomazone                   | Ethofluralin              | Hexazinone             | Nitrothal-isopropyl       | Pyroxulam              | Vinlozolin *              |
| Cloquintocet-mexyl          | Ethiofencarb              | Hexythiazox            | Northuron                 | Quinalphos             | Zoxamide                  |
| Clothianidiaz               | Ethion                    | Imazalil               | N-phenyl urea             | Quinoxylene *          |                           |

\* no metabolites included, \*\* no esters included

Signature

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