



Алматы (7273)495-231
 Ангарск (3955)60-70-56
 Архангельск (8182)63-90-72
 Астрахань (8512)99-46-04
 Барнаул (3852)73-04-60
 Белгород (4722)40-23-64
 Благовещенск (4162)22-76-07
 Брянск (4832)59-03-52
 Владивосток (423)249-28-31
 Владикавказ (8672)28-90-48
 Владимир (4922)49-43-18
 Волгоград (844)278-03-48
 Вологда (8172)26-41-59
 Воронеж (473)204-51-73
 Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
 Ижевск (3412)26-03-58
 Иркутск (395)279-98-46
 Казань (843)206-01-48
 Калининград (4012)72-03-81
 Калуга (4842)92-23-67
 Кемерово (3842)65-04-62
 Киров (8332)68-02-04
 Коломна (4966)23-41-49
 Кострома (4942)77-07-48
 Краснодар (861)203-40-90
 Красноярск (391)204-63-61
 Курск (4712)77-13-04
 Курган (3522)50-90-47
 Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
 Москва (495)268-04-70
 Мурманск (8152)59-64-93
 Набережные Челны (8552)20-53-41
 Нижний Новгород (831)429-08-12
 Новокузнецк (3843)20-46-81
 Ноябрьск (3496)41-32-12
 Новосибирск (383)227-86-73
 Омск (3812)21-46-40
 Орел (4862)44-53-42
 Оренбург (3532)37-68-04
 Пенза (8412)22-31-16
 Петрозаводск (8142)55-98-37
 Псков (8112)59-10-37
 Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
 Рязань (4912)46-61-64
 Самара (846)206-03-16
 Санкт-Петербург (812)309-46-40
 Саратов (845)249-38-78
 Севастополь (8692)22-31-93
 Саранск (8342)22-96-24
 Симферополь (3652)67-13-56
 Смоленск (4812)29-41-54
 Сочи (862)225-72-31
 Ставрополь (8652)20-65-13
 Сургут (3462)77-98-35
 Сыктывкар (8212)25-95-17
 Тамбов (4752)50-40-97
 Тверь (4822)63-31-35

Тольятти (8482)63-91-07
 Томск (3822)98-41-53
 Тула (4872)33-79-87
 Тюмень (3452)66-21-18
 Ульяновск (8422)24-23-59
 Улан-Удэ (3012)59-97-51
 Уфа (347)229-48-12
 Хабаровск (4212)92-98-04
 Чебоксары (8352)28-53-07
 Челябинск (351)202-03-61
 Череповец (8202)49-02-64
 Чита (3022)38-34-83
 Якутск (4112)23-90-97
 Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

Leading From The Front

From the Desk of Director

Pharmaffiliates Analytics & Synthetics (P) Ltd was started in 2001 as an integrated Contract Research Organisation (CRO) providing expert services in Custom synthesis, Analytical research and Regulatory affairs. Right from the inception, it was our committed mission to become a reliable centre of excellence in these areas which the clients could trust. Our focus to develop human resource capital has paid rich dividends.

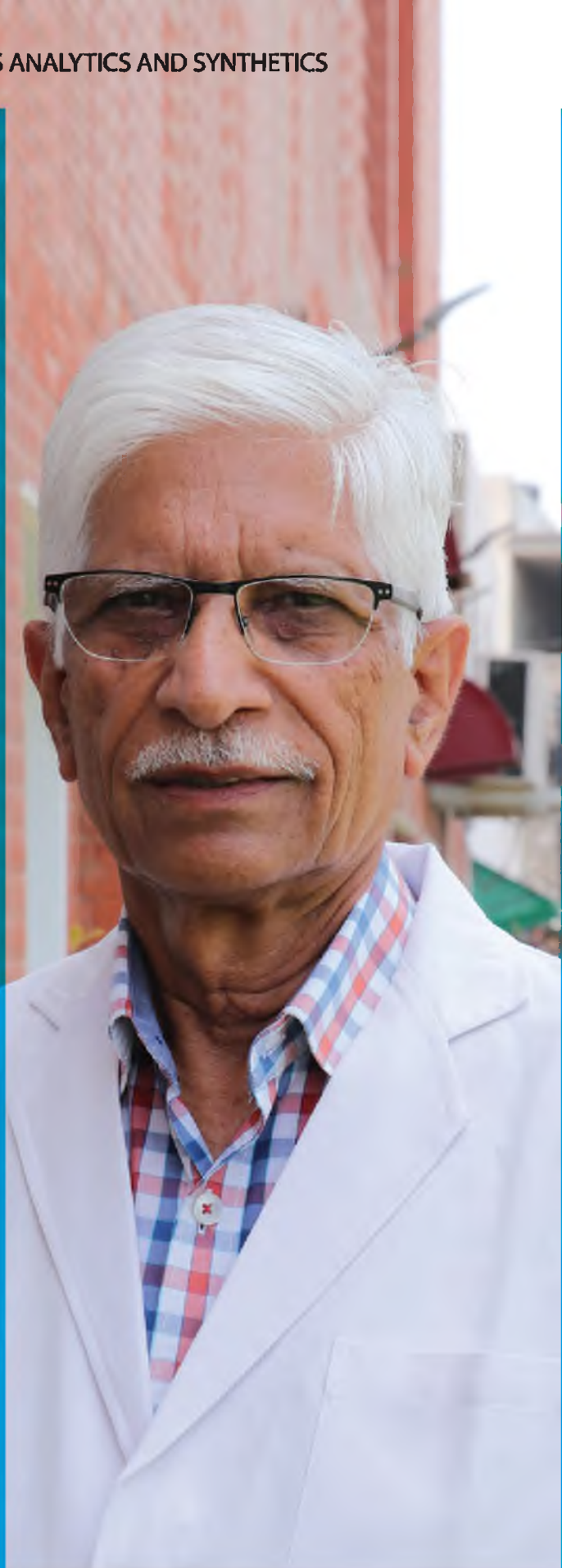
Today, Pharmaffiliates is being recognized globally as an organization where good science is practised out with high degree of accuracy, confidence and reliability.

Our committed work force has given us strength to venture into new areas. New Drug Delivery Systems development with the help of experts in this field is being viewed as a potentially lucrative area which can open up large vistas of business while generating new Intellectual property rights (IPR) for the company.

Looking at the past performance and forthcoming opportunities, I see a bright future for the company and its employees.

I wish to thank all our clients who have shown confidence in our work and encouraged us in our formative years. We look forward to their continued support.

Dr. A.K.Sabharwal



Overview

Pharmaffiliates Pesticides Standards' product line is the most comprehensive portfolio available on the market. Under the brand name "Pharmaffiliates", we proudly offer more than 4000 high quality pesticides standards, pesticides reference materials, metabolites and pesticides stable isotopes for agro-chemical industry for food and environmental analysis. The brochure gives an overview of the current products offering including:

- Pesticides reference materials
 - Fungicides
 - Insecticides
 - Herbicides
- Pesticides Stable Isotope labelled standards
- Pesticides metabolites standards



Making the world.... A better place to live



At Pharmaffiliates we place an emphasis on quality as part of our commitment to providing you with products you can trust. Here is what “Pharmaffiliates Quality” means to us:



PRODUCING HIGH QUALITY STANDARDS:

Pharmaffiliates reference materials are produced to the highest quality, with all analytical measurements performed under our ISO/IEC 17025 scope of accreditation and a leading portfolio of products produced according to our ISO/IEC 17034 accreditation.

We use the most advanced analytical techniques to characterize our reference materials so that you can rely on the scientific integrity of the data contained in your certificate of analysis.



CERTIFYING CONFIDENCE FROM CHARACTERIZATION TO IMPLEMENTATION:

We use real-time stability testing and expiry date management to give you confidence in your Pharmaffiliates reference materials and ensure you receive your products as certified, ready for your analysis. Our careful packaging and choices protect your product during delivery and storage, and are made with your convenience and safety in mind



OFFERING A UNIQUE AND EXTENSIVE PORTFOLIO:

We produce an unrivalled portfolio of reference materials for food and environmental analysis, including unique substances, stable isotope labelled compounds and metabolites. Pharmaffiliates' range of products also features pharmaceutical and veterinary compounds, food related compounds, dyes, food packaging contaminants and more.



UNDERSTANDING YOUR ANALYTICAL NEED

Through direct interactions with our customers and our expertise in the latest scientific and regulatory developments, we are able to quickly adapt our portfolio of reference materials to address your needs.

We are committed to providing you with trusted solutions, today and tomorrow.



PROVIDING EXPERT SUPPORT:

At Pharmaffiliates we combine experience with continuous training to ensure that the latest knowledge and skills are being applied to producing your reference materials. We are proud to connect with our customers across a global network, with dedicated local teams able to support your reference materials decisions and the implementation of our products in your analytical testing.



OUR HERITAGE, OUR VISION, YOUR GUARANTEE:

Pharmaffiliates is built upon more than 19 years of history in planning, developing, producing, analyzing, packaging and delivering high quality reference materials to our customers around the world with speed and reliability. We are passionate about our work which supports you in your science for a safer world.



Providing the best solutions from pest management in food & environmental analysis

Pesticides are usually biological (such as viruses, bacterial, antimicrobials, disinfectants, etc.), chemical substances or a mixture of substances intended to prevent, destroy, repel or mitigate any pests. Targets pests include insects, rodents, weed, bacteria, plant pathogens, mollusks, nematodes (roundworms), mold, fungus and microbes that destroy property, causes nuisance, spread disease or are vectors for diseases.

Pesticides are released into the environment in order to eliminate these pests, but residues from these toxic chemicals also end in the air, water, and even in food. Our pesticide standards help you to accurately monitor soil, water and food quality in compliance with national and international regulations.



STATE-OF-ART HIGH QUALITY CALIBRATION:

Our ISO/IEC 17025 and ISO/IEC 17034 double accreditation is the highest achievable quality level for reference material producers, which ensures the quality of your reference materials.

- Standards are supplied with a comprehensive certificate according to ISO/IEC 17025 & ISO/IEC 17034 with properly calculated uncertainty, taking into account homogeneity and stability data.
- Expiry date stated on the certificate of analysis (COA)
- Convenient packages, either vials or amber-glass ampules, for better stability
- Use as calibration standards, internal standards, surrogate standards, spiking solutions or laboratory control samples (LCSs)



PURCHASING NEAT PESTICIDES STANDARDS

Neat pesticides are typically overfilled by approximately 10%, however, an exact weight is available for an additional charge. Specify X-WT when placing the order to take advantage of this service. A printout of the exact weight will be attached to the product label.

Rinse the pesticide out of the vial with the desired solvent and dilute to volume to get a weight/volume standard.

There are two ways to purchase neat standards: Nominal weight and exact weight (see box below). For your standard preparation (nominal or exact), rinse the sample out of the vial and cap with solvent and dilute to achieve the desired concentration. Unless specified, neat samples are provided with nominal weights. Typically, the vial contains approximately 10% more of the product, however, it is not known when you receive your standard what the exact amount is in the vial. Below is a standard procedure for re-moving all the neat material from the vial and determining the exact weight of the material in the vial

PESTICIDES REFERENCE MATERIAL – NEAT

CATALOGUE NO.	PRODUCT NAME	CAS NO.
PA PST 000075	Acrylonitrile	107-13-1
PA PST 000100	Allyl chloride	107-05-1
PA PST 000135	Amitraz	33089-61-1
PA PST 000315	Atropine	51-55-8
PA PST 000420	Anilazine	101-05-3
PA PST 000465	Acequinocyl	57960-19-7
PA PST 000700	Alpha-Asarone	2883-98-9
PA PST 001280	Biphenyl	92-52-4
PA PST 001325	Bromomethane	74-83-9
PA PST 001340	Bromopropylate	18181-80-1
PA PST 000715	Anthraquinone D8	10439-39-1

INSECTICIDE

CATALOGUE NO.	PRODUCT NAME	CAS NO.
PA PST 000005	Abamectin	71751-41-2
PA PST 000025	Acephate	30560-19-1
PA PST 000030	Acetamipride	135410-20-7
PA PST 000065	Acrinathrin	101007-06-1
PA PST 000085	Aldicarb	116-06-3
PA PST 000090	Aldicarb sulfone	1646-88-4
PA PST 000095	Aldrin	309-00-2
PA PST 000230	Azamethiphos	35575-96-3
PA PST 000240	Azinphos methyl	86-50-0
PA PST 000260	Aldicarb sulfoxide	1646-87-3
PA PST 000640	Aldicarb D3	1261170-75-5

FUNGICIDE

CATALOGUE NO.	PRODUCT NAME	CAS NO.
PA PST 000225	Azaconazole	60207-31-0
PA PST 000245	Azoxystrobin	131860-33-8
PA PST 000305	Acibenzolar-S-methyl	135158-54-2
PA PST 000385	Alternariol	641-38-3
PA PST 000770	Ametoctradin	865318-97-4
PA PST 000775	Amisulbrom	348635-87-0
PA PST 001190	Benzimidazole	51-17-2
PA PST 001295	Bitertanol	55179-31-2
PA PST 001345	Bromoxynil	1689-84-5
PA PST 001350	Bromuconazole	116255-48-2

HERBICIDE

CATALOGUE NO.	PRODUCT NAME	CAS NO.
PA PST 000045	Acetochlor	34256-82-1
PA PST 000080	Alachlor	15972-60-8
PA PST 000105	Ametryne	834-12-8
PA PST 000145	Aniline	62-53-3
PA PST 000175	Asulam	3337-71-1
PA PST 000185	Atrazine	1912-24-9
PA PST 000200	Atrazine desethyl	6190-65-4
PA PST 000235	Amidosulfuron	120923-37-7
PA PST 000265	Ammonium sulfamate	7773-06-0
PA PST 000635	Acrolein	107-02-8
PA PST 000205	Atrazine desethyl D7	50594-66-6
PA PST 000645	Acifluorfen	50594-66-6
PA PST 000750	Aniline d5	4165-61-1

STABLE ISOTOPES

CATALOGUE NO.	PRODUCT NAME	CAS NO.
PA PST 000875	4-Aminobiphenyl D9	344298-96-0
PA PST 000880	4-Aminobutyric-2,2,3,3,4,4 D6 Acid	70607-85-1
PA PST 000885	4-Aminophenol D7	285132-88-9
PA PST 000890	4-Aminopiperidine-3,3,4,5,5 D5	1219803-60-7
PA PST 000895	4-Aminopyridine D6	45498-20-2
PA PST 000940	Acetamide D5	33675-83-1
PA PST 000950	Acetanilide D8	22778-17-2
PA PST 000970	Acetone D6	666-52-4
PA PST 000985	Acrylamide-1-13C	287399-24-0
PA PST 001010	Alachlor D13 (2,6-diethylphenyl D13)	1015856-63-9

PESTICIDES METABOLITES:

The active compound may be converted by target insects or plants, or may be degraded in the environment; monitoring of these transformation products is important to ensure more accurate measurements

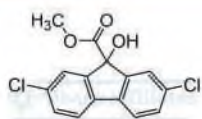
Choose from our broad metabolite portfolio, which we are continuously expanding.

•>150 metabolites available

METABOLITES -REFERENCE MATERIALS

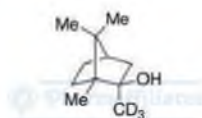
CATALOGUE NO.	PRODUCT NAME	CAS NO.
PA PST 000260	Aldicarb sulfoxide	1646-87-3
PA PST 000215	Atrazine desethyl desisopropyl	3397-62-4
PA PST 000090	Aldicarb sulfone	1646-88-4
PA PST 017210	Acetamiprid-N-desmethyl	190604-92-3
PA PST 003710	Clothianidin D3 (N-methyl D3)	1262776-24-8

EXAMPLES OF PESTICIDES REFERENCE MATERIALS*-



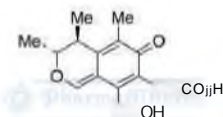
Dichloroflurenol methyl
Dichloroflurenol-methyl

Catalogue No.: PA PST 017705 CAS: 21634-96-8 Molecular Formula: C₁₅H₁₀Cl₂O₃ Molecular Weight: 309.14



(-)-2-Methyl D3-isoborneol
(-)-2-Methyl D3-isoborneol

Catalogue No.: PA PST 009950 CAS: 135441-89-3 Molecular Formula: C₁₁H₁₇D₃O Molecular Weight: 171.29



(-)-Citric acid
(-)-Citric acid

Catalogue No.: PA PST 003220 CAS: 518-75-2 Molecular Formula: C₆H₈O₇ Molecular Weight: 250.25

FEATURED PESTICIDES REFERENCE MATERIALS

Product Name	Qty.	Pack Size
4,4'-DDT-D8 min 95%	NA	10mg
BTS 44595 Prochloraz Metabolit min 95%	139520-94-8	10mg
BTS 44596 Prochloraz Metabolit min 95%	139542-32-8	10mg
Bentazone D7 Min 95%	25057-89-0	10mg
α -Chlordane min 95%	5103-71-9	10mg
γ -Chlordane min 95%	5103-74-2	50mg
Fipronil Desulfinyl min 95%	205650-65-3	25mg

Product Name	Qty.	Pack Size
Heptachlor endo-epoxide min 95%	28044-83-9	50mg
(\pm)-NIKOTINE-d4 min 95%	350818-69-8	1ml
N,N'-(1,2-Propylene)thiourea-(methyl-d3)	NA	10mg
Paraquat Diodide Dimethyl D6 min 95%	NA	25mg
Parathion - ethyl min 95%	5103-71-9	10mg
Penflufen - min 95%	494793-67-8	100mg
Fipronil Desulfinyl min 95%	205650-65-3	25mg

NORMS & REGULATIONS:

More than 1000 active ingredients are currently registered as pesticides worldwide. They are heavily regulated by both international (e.g., European regulation (EC) No. 1107/2009), and national regulatory bodies (e.g., the Environmental Protection Agency (EPA) in the USA, the Brazil Pesticide Law 9974, or the Pesticides Management Bill, 2008 in India).

Out of these regulations, quality test methods have been developed to control levels of pesticide residues in food and feed, drinking and waste water, and soil. We offer a variety of multi-component solutions as certified reference materials for various EPA and EN (European Norm) methods.

APPLICATION NOTES FOR PESTICIDES:

Pesticides are analyzed using multiple methods with gas, or liquid chromatography instrumentation, and in a wide variety of matrices (feed, food, water, soil) using different sample preparation methods. We have an extensive collection of applications specific to pesticide analysis.

LABELS, SAFETY, STORAGE AND PACKAGING

2-Part Label System

Smudgeproof, tear and solvent resistant *

This label section includes the catalog number, description, lot number, expiration date, safety information, proper storage conditions



HOW TO EXTRACT MATERIAL:

Small amounts (5-10 mg) of powder often are spread over the surface of the vial and cap. If the chemical is a liquid, it may coat the walls as a thin layer invisible to the eye. To recover all of the contents contained in a vial of neat material, please use the procedure described below:

1. Wipe the outside of the vial (containing the standard) clean and dry (including the cap).
2. Weigh the entire unit on an analytical balance. Record the weight to the nearest 0.1 mg.
3. Carefully transfer the contents to a volumetric flask using a suitable solvent. Rinse the cap and vial several times to assure a complete transfer.
4. Dry inside and outside of the vial and cap with mild heat or inert gas.
5. Weigh the empty dry vial on the same analytical balance to the nearest 0.1 mg and calculate by difference the amount of material transferred.

GHS Symbols



- **Acute Toxicity (Fatal or Toxic)**

GHS – 06



GHS – 02

- **Flammables**
- **Self Reactives**
- **Pyrophorics**
- **Self-Heating**
- **Emits Flammable Gas**
- **Organic Peroxides**



GHS- 08

- **Carcinogen**
- **Respiratory Sensitizer**
- **Reproductive Toxicity**
- **Mutagenicity**
- **Aspiration Toxicity**



GHS-07

- **Irritant**
- **Skin Sensitizer**
- **Acute Toxicity (Harmful)**
- **Narcotic Effects**
- **Respiratory Tract Irritant**



GHS- 05

- **Corrosives**
- **Skin Corrosion/Burns**
- **Eye Damage**
- **Corrosive to Metals**



GHS -09

- **Aquatic Toxicity**



GHS -03

- **Oxidizers**



Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)208-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47