

TR-50MS

TRACE GC Capillary Column

Key Words

- Mid Polarity
- Pesticides
- Silphenylene

Introduction

The TR-50MS from Thermo Electron Corporation is a silphenylene based phase ideal for all GC/MS applications. The column is particularly suited for applications which require a high temperature phase but more polarity than a 5% phenyl column. The TR-50MS can be used in combination with a 5% phenyl column as a confirmation column. A low bleed column is especially important for GC/MS as contamination of source components will quickly lead to a degradation of results and costly instrument downtime. This phase is extremely low bleed with a maximum operating temperature of 370°C.



Phase Type

50% Phenyl Polysilphenylene-siloxane

Maximum Temperatures

360°C / 370°C

USP Category

G3, G17

Cross Reference of Competitor Phases

OV-17, SP-2250, DB-17, DB-17ms, DB-17ht, BPX50, Rtx-50, SPB-50, HP-50+, HP-17, AT50, RSL-300, PE-17, CC-17, 007-17(MPS-50), SPB-17, ZB-50

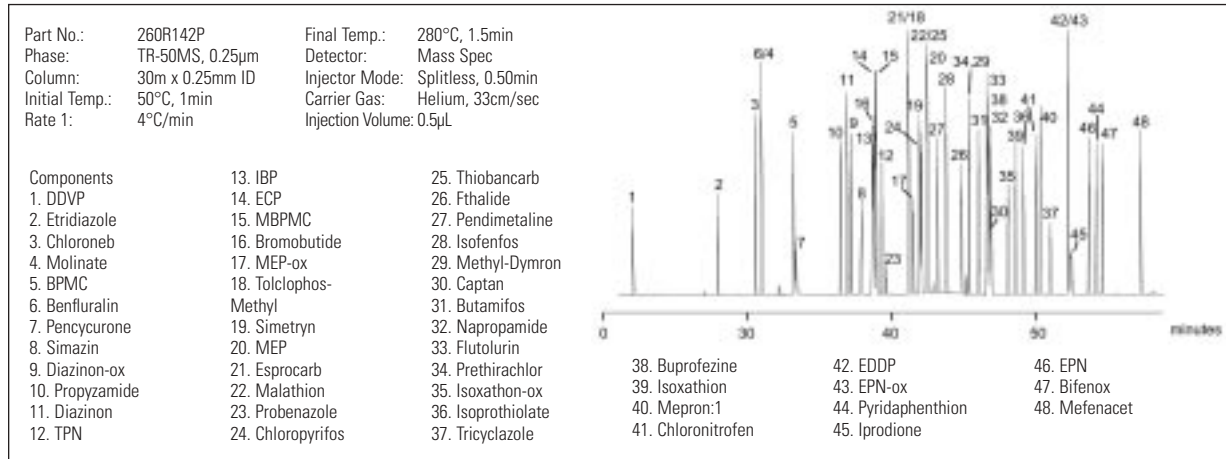
Application

The sample application of a mixture of pesticides demonstrates the excellent separation of a medium polarity compounds on a mid-polarity column. The inertness of the column also results in minimal peak tailing. This together with high efficiency results in narrow peaks and excellent separation.

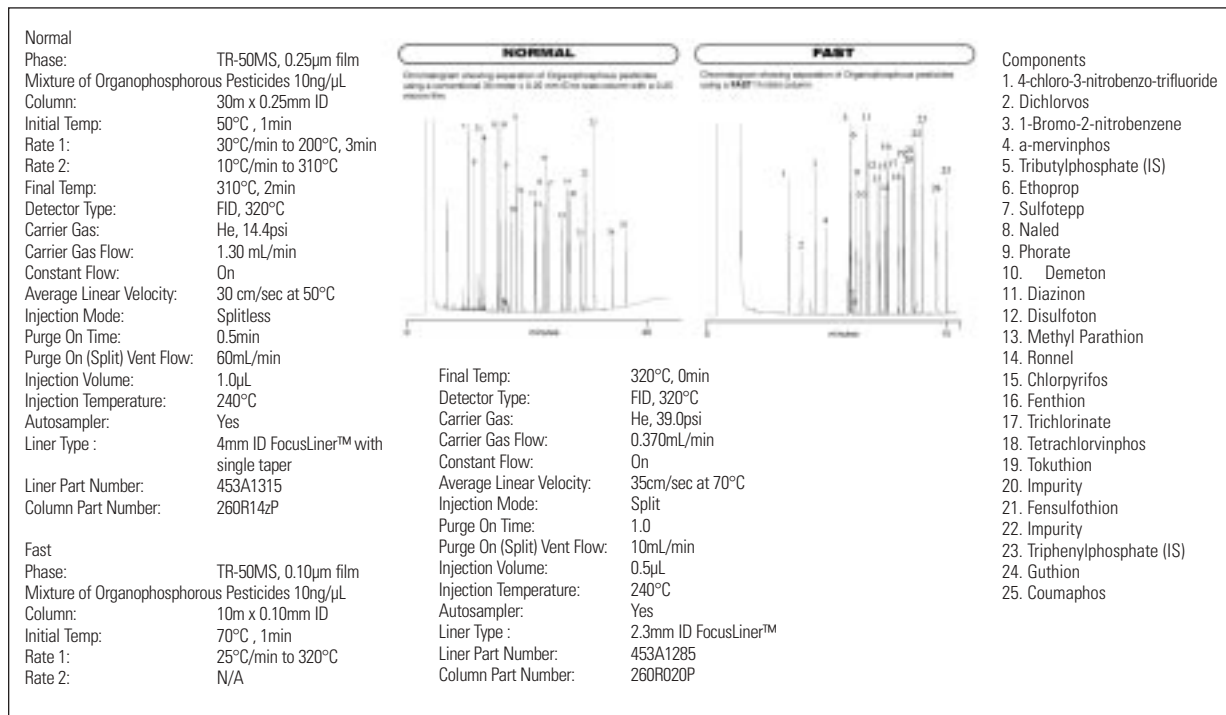
TR-50MS Product Information

ID (mm)	FILM THICKNESS (µm)	LENGTH (m)	PART NO.
0.10	0.10	10	260R020P
0.25	0.25	15	260R130P
0.25	0.25	30	260R142P
0.25	0.25	60	260R154P
0.32	0.25	15	260R131P
0.32	0.25	30	260R143P
0.32	0.25	60	260R155P
0.53	0.50	15	260R213P
0.53	0.50	30	260R225P

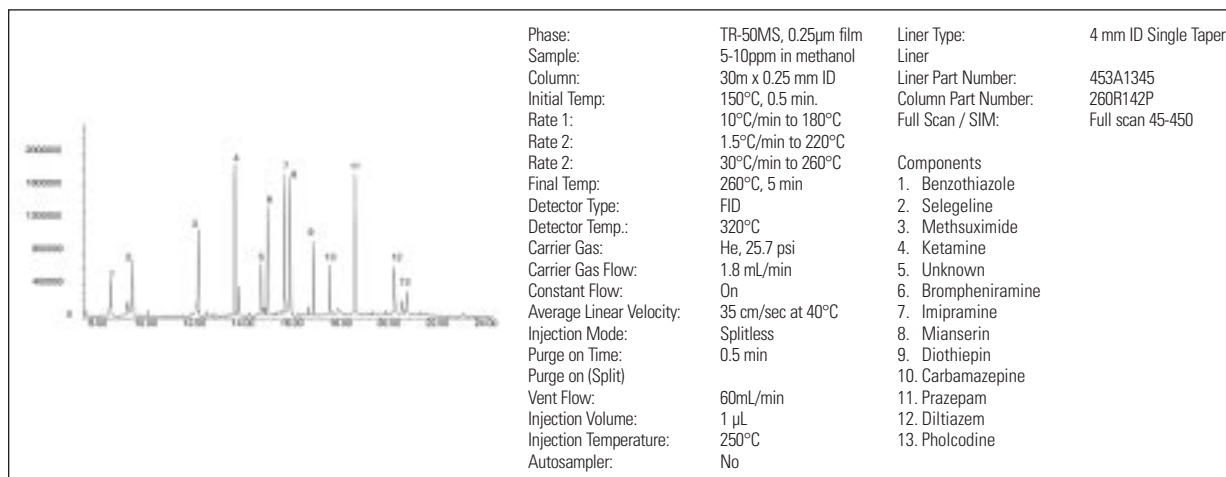
Analysis of Chlorine, Phosphorus and Nitrogen based Pesticides



Organophosphorous Pesticides on TR-50MS



Variety of Antidepressant and Anticonvulsant Drugs on TR-50MS



In addition to these offices, Thermo Electron Corporation maintains a network of representative organizations throughout the world.

Australia
+61 2 9898 1244

Austria
+43 1 333 50340

Belgium
+32 2 482 30 30

Canada
+1 800 532 4752

China
+86 10 5850 3588

France
+33 1 60 92 48 00

Germany
+49 6103 4080

Italy
+39 02 950 591

Japan
+81 45 453 9100

Netherlands
+31 76 587 98 88

Nordic
+46 8 556 468 00

South Africa
+27 11 570 1840

Spain
+34 91 657 4930

Switzerland
+41 61 48784 00

UK
+44 1442 233555

USA
+1 800 532 4752

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