



The new range of Tracer Extrasil packings has been specially developed to replace one of the most popular packings on the market (WS).

All the physical and chromatographic parameters evaluated show a total equivalence between both materials, and what is more important, this has been certified by the excellent results obtained by the many users who upto now have tried this packing.

Economy

Tracer Extrasil represents the most economical choice of HPLC packings.

Reproducibility

An advanced manufacturing process and a strict control of each one of its steps ensures a maximum reproducibility and efficiency in every one of the columns.

Guarantee

The confidence we have in our product enables us to offer a complete guarantee on these columns, so that if for any reason whatever a client thinks that a TRACER EXTRASIL column does not operate in an identical manner to the equivalent WS packing, we will refund his money.

Characteristics of the material

As shown in the following table, the new packing TRACER EXTRASIL is perfectly equivalent to the reference material in all its physicochemical characteristics.

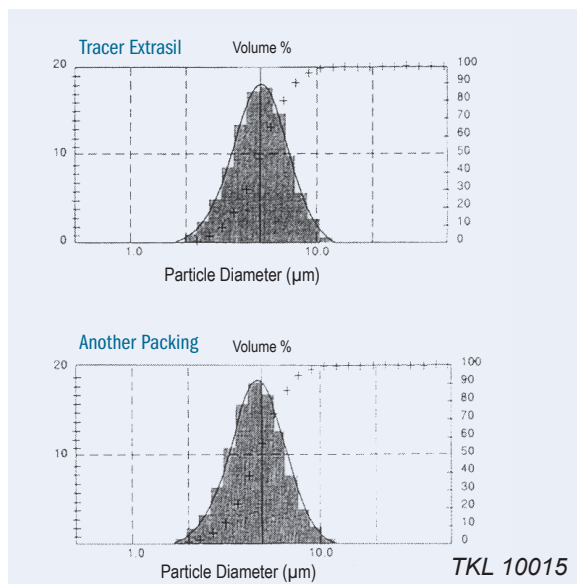
Characteristics

Tracer Extrasil 3,5 & 10 µm 80 A 220 m ² /g	Particle Size Pore Size Surface area Carbon content	WS Packing 3,5 & 10 µm 80 A 220 m ² /g
4%	C1	4%
6%	C6	6%
6%	C8	6%
7%	ODS-1	7%
12%	ODS-2	12%
3,5%	CN	3,5%
2%	NH2	2%
3,0%	Phenyl	3,0%
-	8AX	-
-	SCX	-

Distribution of particle size

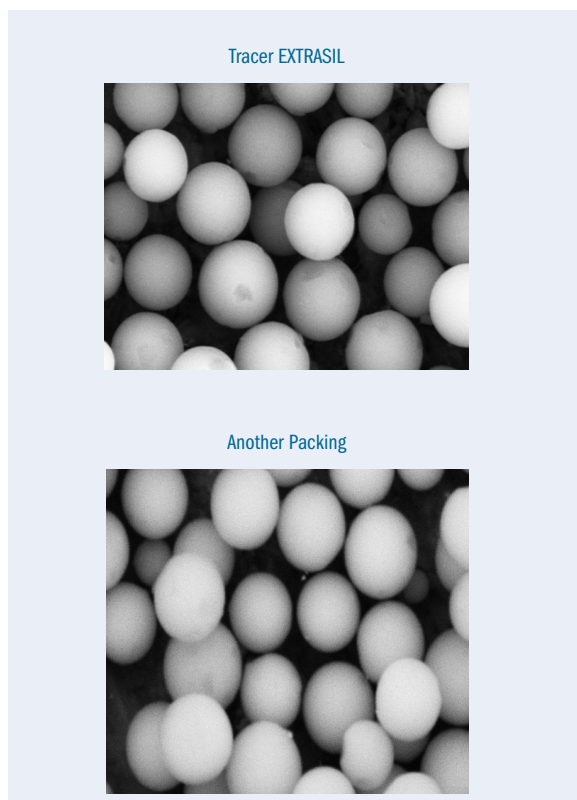
In the development of this new material there has been special care in optimization of the size of the particle, given that this control is essential to get the best efficiency and stability in the packing.

The comparison made with the WS packing shows once more the total equivalence of these two materials.



S.E.M. of the silica particle

The packing that results shows an almost perfect sphericity, as the images made by a scanning electron microscope show.

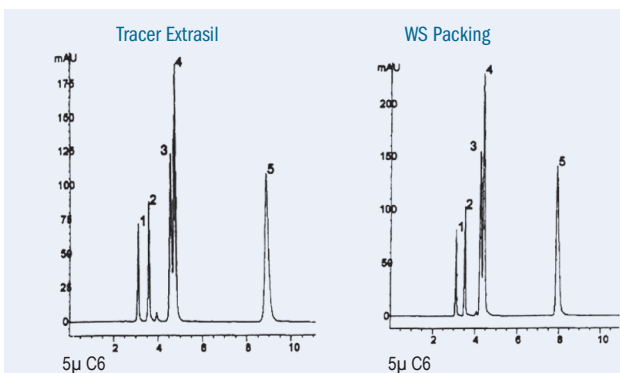


Applications

In addition to the complete agreement between the comparative data for both packings, the definitive proof comes from their comparison in a wide range of applications.

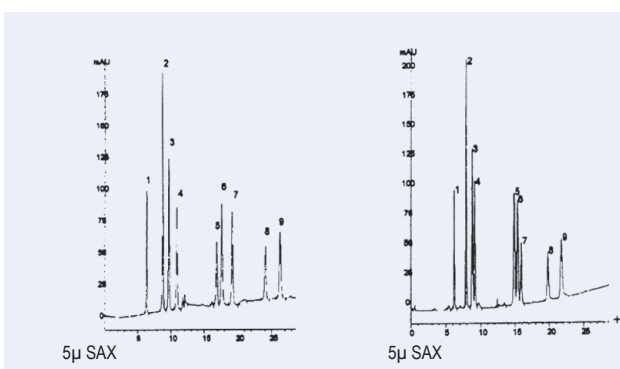
Catecholamines

Dimensions: 250 x 4.6 mm
 Mobil Phase: CH₂OH:25 mM KH₂PO₄ pH 2.0 (2:98)
 Flow Rate: 1.0mL/min
 Temperature: 40°C
 Detection: UV@ 270nm
 Sample: 1. Norepinephrine
 2. Betametason
 3. Dopamine
 4. L-DOPA
 5. Serotonine



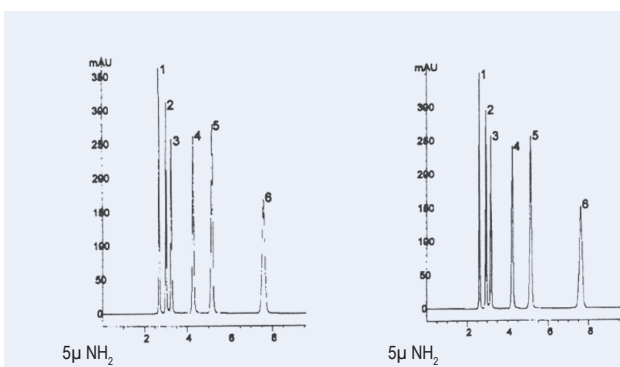
Nucleotides

Dimensions: 250 x 4.6 mm
 Mobil Phase: A: 0.04M KH₂PO₄ pH 5.5
 B: 0.5M KH₂PO₄pH 5.5
 Flow Rate: 1.0mL/min
 Detection: UV@ 254nm
 Sample: 1. β-NAD
 2. IMP
 3. GMP
 4. AMP
 5. GDP
 6. ADP
 7. NADP
 8. ITP
 9. ATP



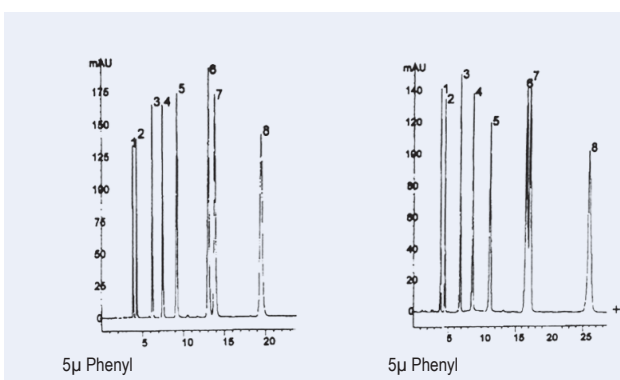
Corticosteroids

Dimensions: 250 x 4.6 mm
 Mobil Phase: CH₂Cl₂:CH₃OH (95:5)
 Flow Rate: 1.0mL/min
 Detection: UV@ 254nm
 Sample: 1. Deoxicorticosterone Acetate
 2. Desoxicorticosterone
 3. Hidrocortisone 21-Acetate
 4. Corticosterone
 5. Cortisone
 6. Hidrocortisone



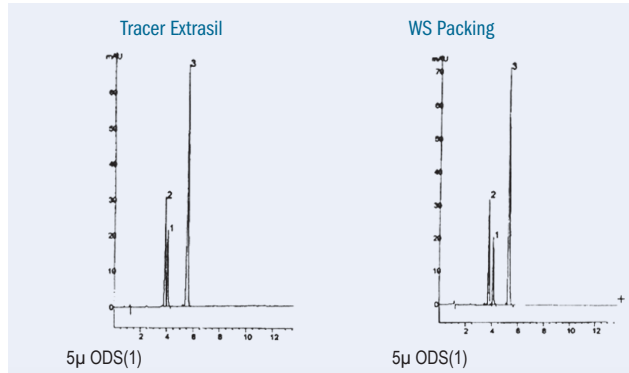
Aromatic Cetones

Dimensions: 250 x 4.6 mm
 Mobil Phase: CH₂ CN :CH₂ O (33:67)
 Flow Rate: 1.0mL/min
 Detection: UV@ 254nm
 Sample: 1. Benzamide
 2. Alcohol Bencilic
 3. Acetophenone
 4. Methyl Benzoat
 5. Phenetole
 6. Naphtalene
 7. Benzophenone
 8. Biphenile



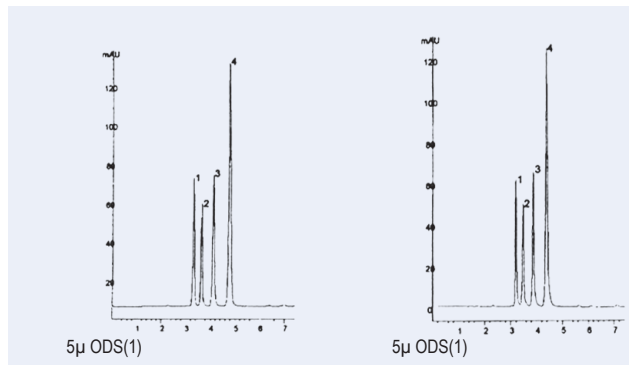
SRM 869

Dimensions: 250 x 4.6 mm
 Mobil Phase: H₂O:CH₃CN (15:85)
 Flow Rate: 2.0mL/min
 Temperature: 35°C
 Detection: UV@ 260nm
 Sample: 1. Benzo (a) pirene (BaP)
 2. Phenantro (3,4-C)
 2. Phenantrene (Ph Ph)
 3. Tetrabenzonaphtalene
 Tracer Extrasil ODS 2 aTBN/BaP = 1,77
 Packing WS ODS-2 aTBN/BaP = 1,70



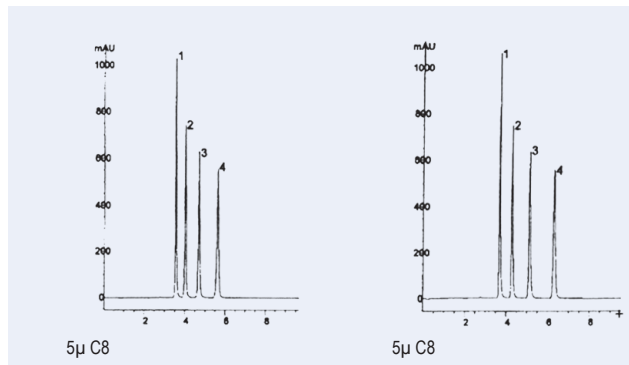
4-Hidroxi benzoates

Dimensions: 250 x 4.6 mm
 Mobil Phase: H₂O:CH₃CN (35:65)
 Flow Rate: 1.0mL/min
 Detection: UV@ 254nm
 Sample: 1. Methyl-4-hidroxi benzoate
 2. Ethyl-4-hidroxi benzoate
 3. Propyl-4-hidroxi benzoate
 4. Butyl-4-hidroxi benzoate



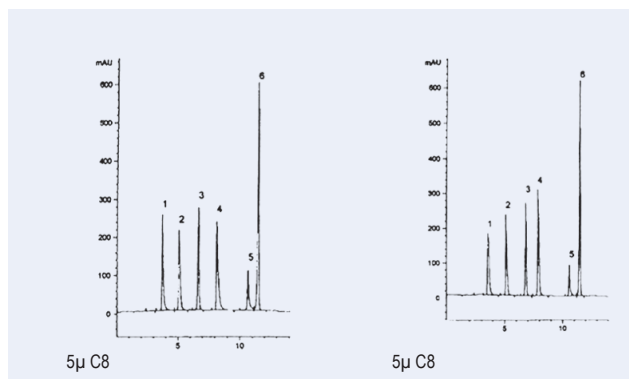
4-Hidroxi benzoates

Dimensions: 250 x 4.6 mm
 Mobil Phase: H₂O:CH₃CN (45:55)
 Flow Rate: 1.0mL/min
 Detection: UV@ 254nm
 Sample: 1. Methyl- 4-hidroxi benzoate
 2. Ethyl-4-hidroxi benzoate
 3. Propyl-4-hidroxi benzoate
 4. Butyl-4-hidroxi benzoate



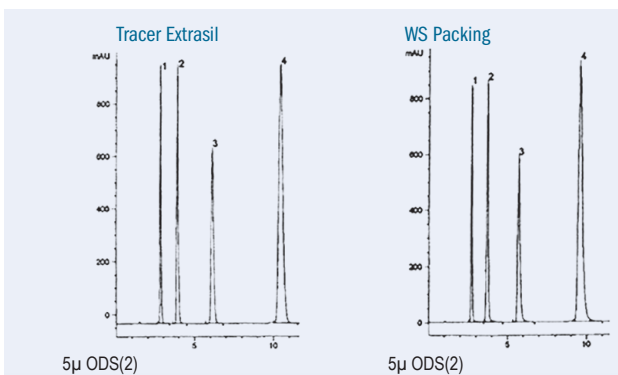
Hidrosoluble Vitamines

Dimensions: 150 x 4.6 mm
 Mobil Phase: A: 5mM 1-Penta sodic nesulfonate in 0.1% H₃PO₄
 B: 5mM 1-Sodic Pentanesulfonate in 0.1% H₃PO₄ in 80 % CH₃CN A:B (97.5:2.5) to A:B (70:30) in 20 min.
 Flow Rate: 1.0mL/min
 Detection: UV@ 254nm
 Sample: 1. Nicotinamine
 2. Pyridoxal
 3. Acide p-amynobenzaic
 4. Tyamine
 5. Folic Acid
 6. Riboflavine



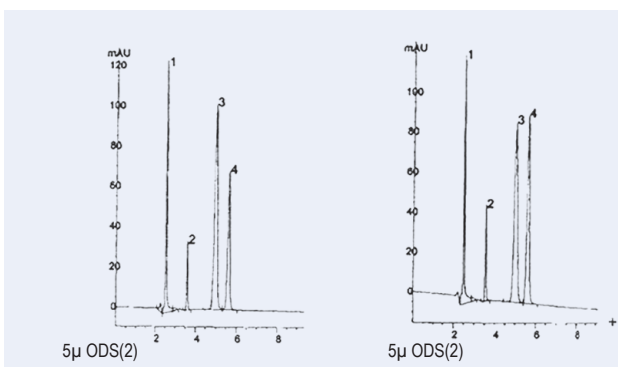
4-Hidroxi benzoat

Dimensions: 150 x 4.6 mm
 Mobil Phase: H₂O:CH₃CN (40:60)
 Flow Rate: 1.0 mL/min
 Temperature: 40°C
 Detection: UV@ 254 nm
 Sample: 1. Methyl-4-hidroxi benzoat
 2. Ethyl-4-hidroxi benzoat
 3. Propyl-4-hidroxi benzoat
 4. Butyl-4-hidroxi benzoat



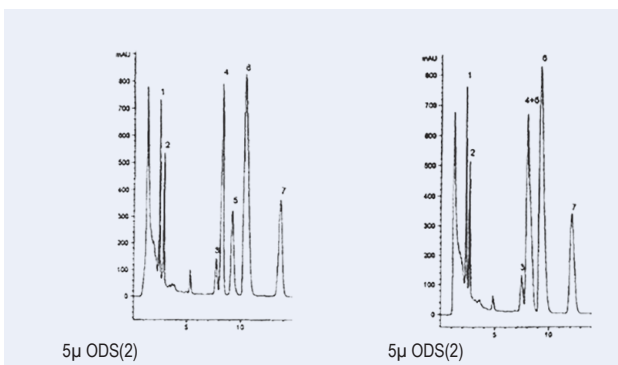
Polar Compounds

Dimensions: 250 x 4.6 mm
 Mobil Phase: 25 mM KH₂PO₄, pH 2.5
 Flow Rate: 1.0 mL/min
 Temperature: 40°C
 Detection: UV@ 230 nm
 Sample: 1. L-Cysteine
 2. L-ascorbic Acid
 3. Glutathione
 4. Uric Acid



Liposoluble Vitamin

Dimensions: 150 x 4.6 mm
 Mobil Phase: CH₃CN:CH₃OH (75:25)
 Flow Rate: 1.3 mL/min
 Detection: UV@ 280 nm
 Sample: 1. Vitamine A
 2. Vitamine A Acetate
 3. Vitamine D2
 4. Vitamine D3
 5. Vitamine E
 6. Vitamine E Acetate
 7. Vitamine K1



Pesticides/Herbicides

Dimensions: 150 x 4.6 mm
 Mobil Phase: H₂O:CH₃CN (70:30)
 Flow Rate: 1.0 mL/min
 Detection: UV@ 254 nm
 Sample: 1. Baygon™
 2. Carbofuran
 3. Carbaryl
 4. Protham
 5. Captan

