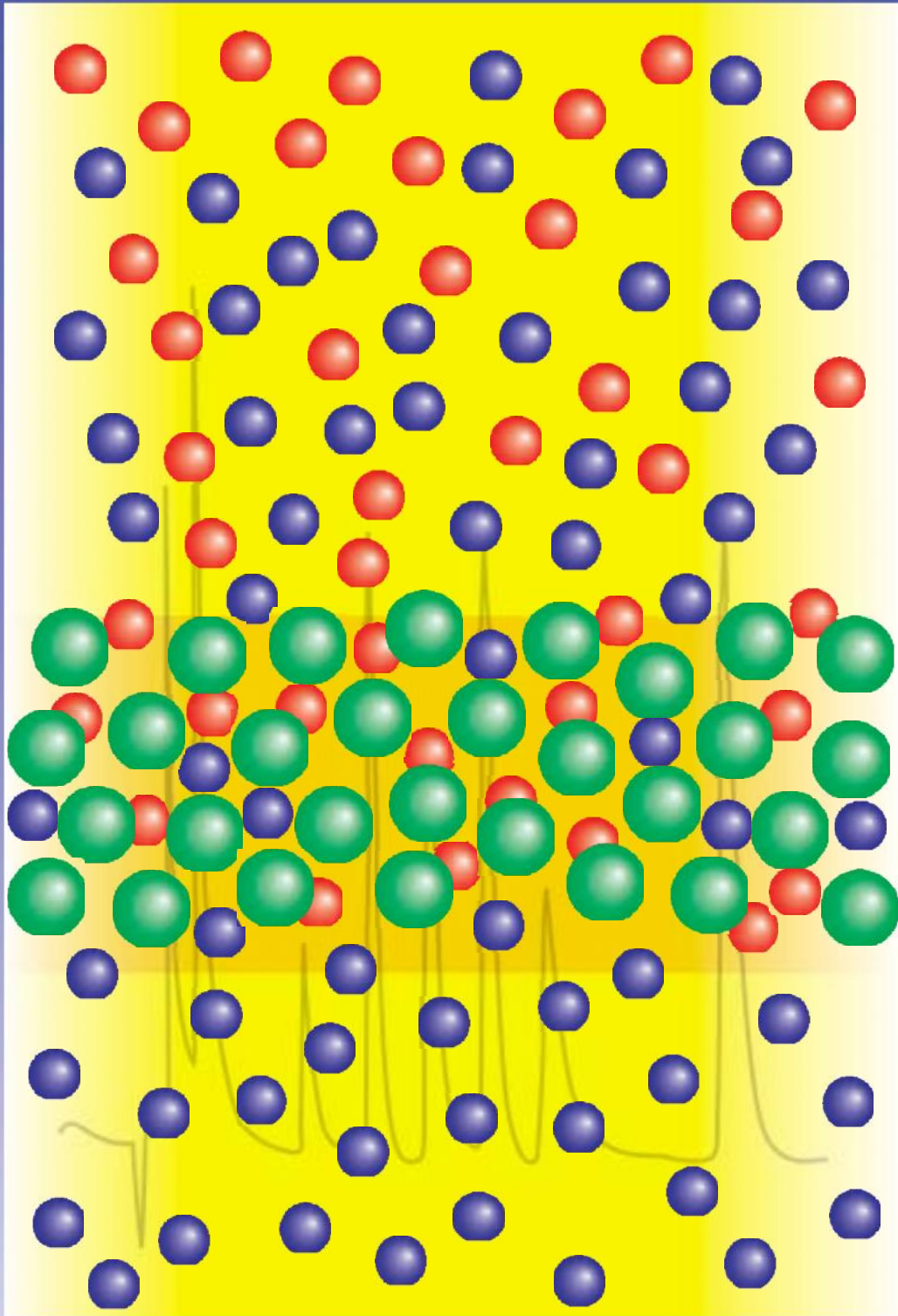


CHROMALITE™



A NEW RANGE OF HIGHLY UNIFORM MICROBEAD PRODUCTS FOR ALL CHROMATOGRAPHIC, SOLID PHASE SYNTHESIS, AND BIO SEPARATION APPLICATIONS

PUR**LITE**
ION EXCHANGE RESINS

CHROMALITE™

State of the art solid phases for all your chromatographic and bio separation applications

Purolite® International Limited regarded as one of the worlds largest manufacturers of ion exchange resins and adsorbents has recently developed a new microbead product line, CHROMALITE™.

The CHROMALITE™ range of microbeads includes highly uniform products for all Chromatographic, Solid Phase Synthesis, and Bio Separation applications.

Important factors influencing the performance of polymeric microbead products include:

- Particle size distribution
- Porosity
- Functionality

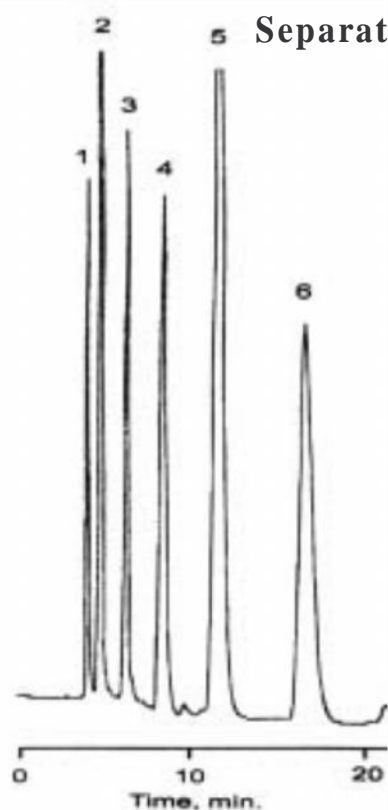
Our propriety manufacturing techniques guarantees very high degree of uniformity and excellent batch to batch consistency.

The CHROMALITE™ products are available in a variety of particle size ranges. Furthermore, Purolite® can offer different morphologies such as gel, macroporous or hyper cross-linked products. The pore size and pore size distribution can be tailor-made for certain applications, if necessary. Apart from non functional polymeric phases

a number of functional groups such as sulphonic acid, amines, and hydroxyl groups could be introduced to meet the requirements of particular separation and synthetic procedures.

The advantages of CHROMALITE™ solid phases could be summarised as follows:

- Monospheric beads with a very high degree of uniformity
- Various pore sizes and pore size distributions available
- Excellent performance due to high uniformity
- Able to operate in high pH environments
- Tailor-made bead size and porosity specification



Separation of di-*n*-alkylphthalates

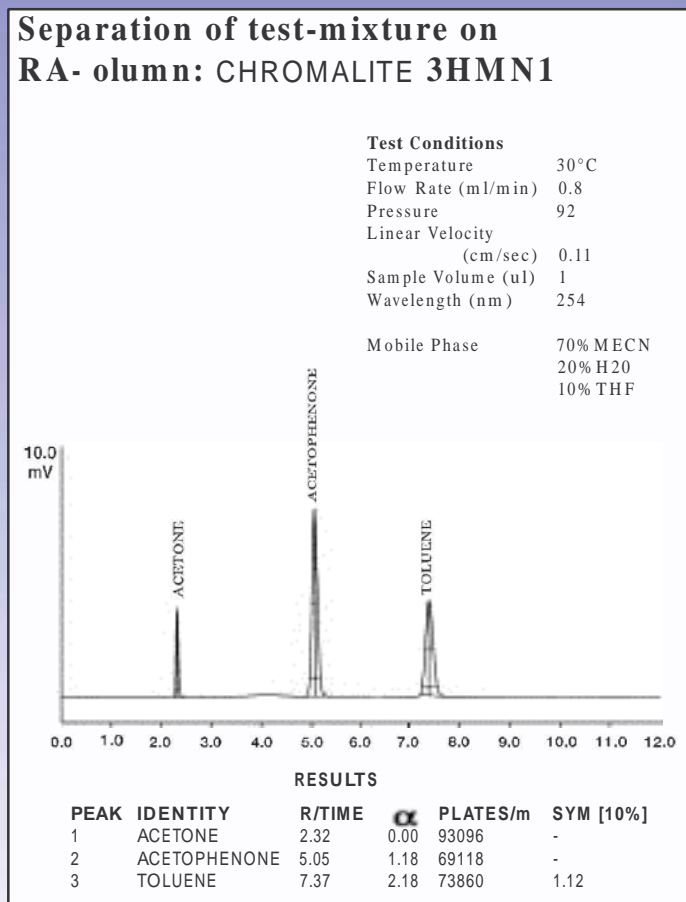
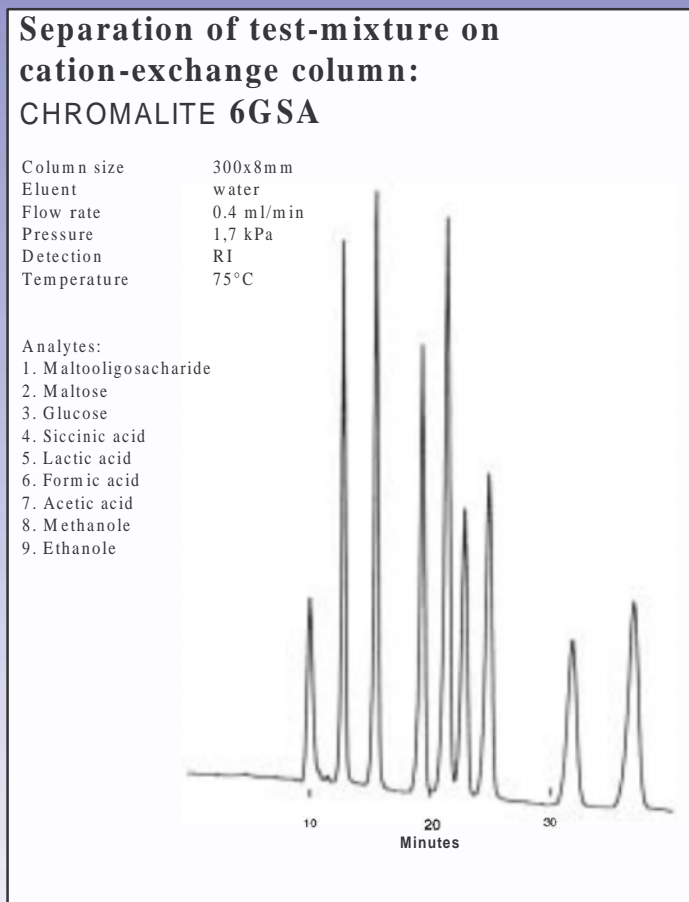
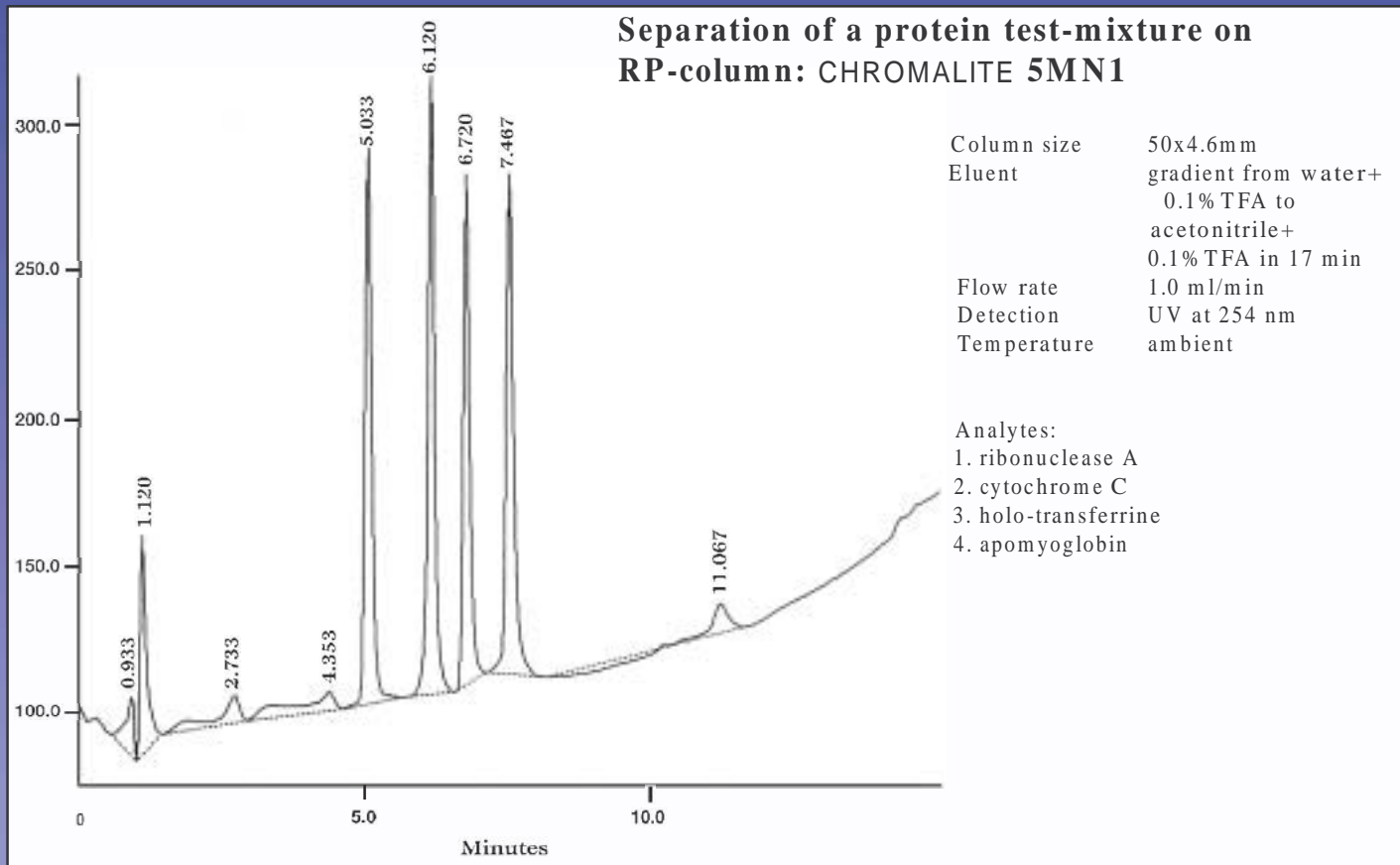
CHROMALITE 5HMN1

Column: 150 x 4.6mm, ID

Mobile phase: ACN.

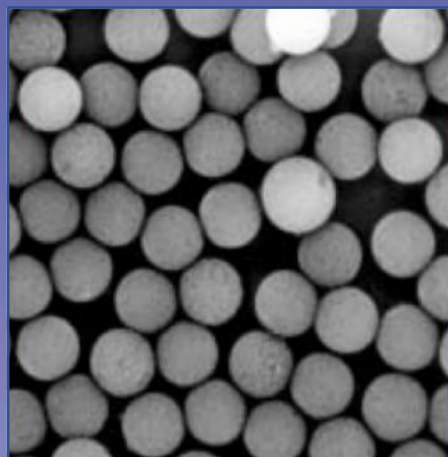
- 1 - dimethylphthalate
- 2 - diethylphthalate
- 3 - di-*n*-propylphthalate
- 4 - di-*n*-buthylphthalate
- 5 - di-*n*-pentylphthalate
- 6 - di-*n*-hexylphthalate

CHROMALITE™

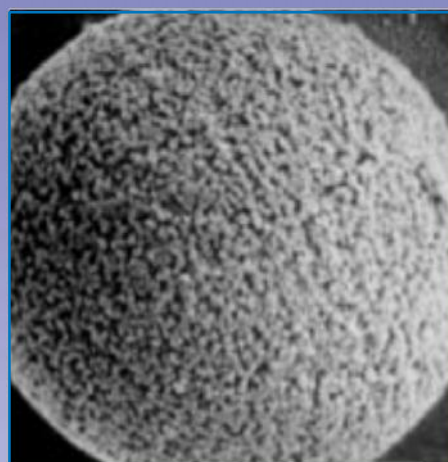


CHROMALITE™

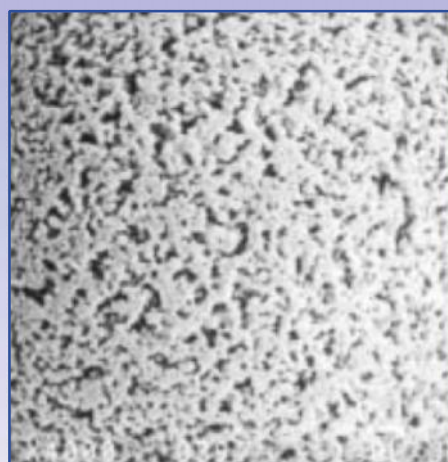
Offers greater efficiency
and more reliability



X1,000 $\overline{10\mu\text{m}}$



X4000 $\overline{1\mu\text{m}}$



X10000 $\overline{1\mu\text{m}}$

The CHROMALITE™ product range

Polymeric matrices:	Polystyrene copolymers Polyacrylate copolymers Hyper crosslinked copolymers
Particle size:	3 μm - 20 μm (analytical applications) 15 μm - 90 μm (preparative applications) 50 μm - 300 μm (solid phase synthesis)
Porosity:	gel type (no macropores) macroporous biporous microporous } hyper crosslinked
Pore sizes:	200 \AA ; 500 \AA ; 1000 \AA ; 2000 \AA * others to order
Functionality:	non functional sulphonic acid primary, secondary, tertiary amines quaternary ammonium ions hydroxyl groups chloromethyl group and others

* Determined by mercury intrusion.

Please contact us for detailed specification of products, or for further inquiries e.g. in terms of functional groups.

CHROMALITE™

The outstanding performer in today's demanding environment

Unique properties

CHROMALITE™ solid phases have a number of unique properties as listed below:

1. **High pH stability for customers using NaOH cleaning**
2. **Extremely high specific surface area for hyper cross-linked chromalite products**
3. **Potential to use organic rich eluents with highly hydrophilic components**
4. **Better hydrodynamic properties producing lower column back pressure vs conventional packings**

Applications

CHROMALITE™ solid phases are useful in a number of applications as listed below:

1. **Chromatography** e.g. reverse phase, GPC, ion exchange and ion exclusion
2. **Bioseparations** e.g. downstream and Biochromatography
3. **Solid phase synthesis** e.g. Scavenger, polymeric reagents and supports
4. **Solid phase extraction (SPE) and sample preparations**



REGIONAL OFFICES

(www.purolite.com)

Purolite® has more than 40 offices worldwide! For more information, contact the closest regional office near you or visit our website at <http://www.purolite.com/>

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