

## About us ...

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For more than 100 years, Marquat has been designing and manufacturing products of uncompromising quality to meet the requirements of physicians

Since its creation, Marquat has dedicated expertise and exceptional know-how in catheterization at the service of practitioners of digestive tract, urological and respiratory functional exploration

Today we are proud to count among our partners the most important hospitals and private care centres in France



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### Marquat Genie Biomedical

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## Functional Exploration of Digestive Tract

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## Colonic Transit Time Measurement with Transi-Mark® Markers

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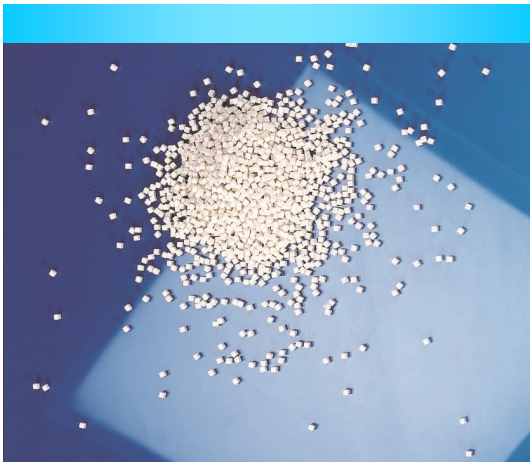


MARQUAT



GENIE BIOMEDICAL

100 years of expertise and innovation serving healthcare



## Radiopaque Markers

Radiopaque markers are used to measure Colonic Transit Time (CTT)

The monitoring of their progress is carried out on images of an abdominal X-ray

Markers are easily identifiable and quantifiable by their shape

CTT measurement of the three colic segments (right colon, left colon and rectosigmoid) and throughout the colon.

## Measurement of Transit Time

In order to get an overall picture of colonic motility, it is recommended to measure the transit time of radiopaque markers in various parts of the colon.

The methodology relies on the analysis of the migration of ingested radiopaque markers over the projection area of the colon.

The abdomen can be separated by dividing the image into 3 areas of interest demarcated by a line joining the spinous processes of the vertebral column



(passing through L5) and the 2 lines joining the roof of each cotyloid cavity and the L5 spinous process.

The formula for the transit time of a marker in a given site is :

$$T = 1/N \sum n \Delta t$$

Where

N is the number of markers given each day (10)

$\sum n$  is the number of markers counted in a site

$\Delta t$  is the time between two capsule ingestion, in this case 24 hours.

This translates into simplifying :

$$T = n^*24/10 \text{ or } T=2,4*n$$

*Indicative thresholds for the European population*

	Total	Right colon	Left colon	Rectosigmoid
Man	77	19	16	21
Woman	91	22	48	38

## Prescription

The markers strongly opaque to X-rays are available as 10 cubes of 2.5mm in a capsule to facilitate ingestion

2 prescriptions are required: one for the abdominal X-ray and another one for the radiopaque markers.

Before starting the test, the patient should first make an appointment at the radiology centre for an anteroposterior X-ray view of the abdomen without preparation for the 7th day after having the first capsule. The patient should take one capsule each day for 6 days at the same time as the appointment and have an X-ray on the 7th day.



To order **Transi-Mark®** radiopaque markers or to know the nearest place to get them, contact our customer service:

Phone: +33 1 45 69 20 62      [serviceclient@marquat.com](mailto:serviceclient@marquat.com)

Visit our website: [www.transimark.com](http://www.transimark.com)



Ref. C624-C6—**Transi-Mark®**  
6 capsules of 10 radiopaque markers