

CTIODINE®

QRM-CTiodine

CTIODINE® is a solid material replacing iodinated contrast-media in water or blood for x-ray imaging. It is available in any concentration of iodine or CT-values (HU) on request.

QRM Tissue Equivalents and Basic Materials are mimicing water and different type of tissue substitutes as well as contrast media due to there physical x-ray attenuation properties.

CTIODINE® is a solid material and can be used for **Dual-Energy** methods in Computed Tomography and other x-ray imaging modalities.

CTIODINE® is optimized for the x-ray energy range from 70 - 150 kV. It is included in many of our phantoms.

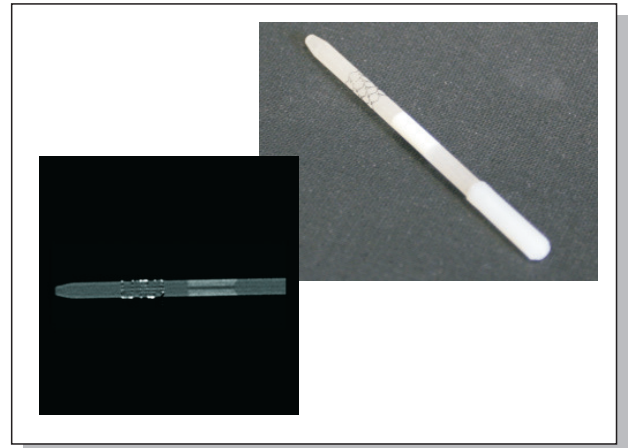
Enhanced contrast is a major issue in diagnostic imaging. CTIODINE® provides equivalent properties to iodinated contrast media as used for contrast enhancement in diagnostic x-ray procedures.

It is produced on a base resin with molecularly linked iodine.

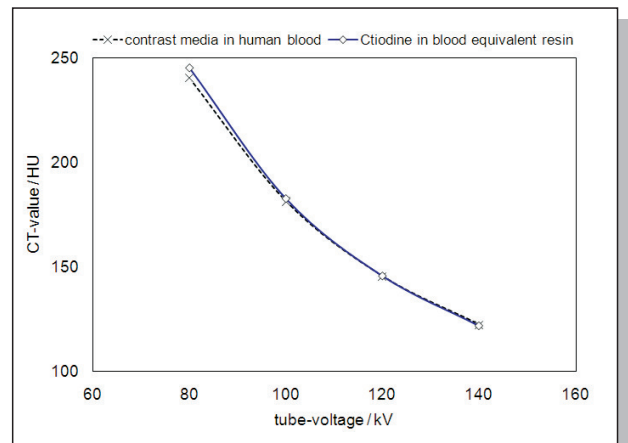
While the concentration of liquid contrast media is given in mg iodine /ccm, our solid contrast media based on CTWATER® is given in the same fashion (mg iodine/ccm) but as a solid and easy to use material.

CTIODINE® is available based on CTWATER®, blood equivalent and standard resin.

For CTIODINE® based on CTWATER® or blood equivalent resin the CT-values are valid for the whole range from 80 to 140 kV. For the standard resin mixture the requested concentration is valid for a single kV level.



Example for a Stent-phantom with CTIODINE® and stenosis (calzification).



CT-values for different tube-voltages of 10 mg Iodine/ccm in human blood and in solid material.

Specifications

As basic materials are available:

- CTWATER®
- blood equivalent resin
- pure resin

Please contact us for desired size or integration in an existing phantom.

Please let us know your specific CT-values or concentration of iodine in your favored material.

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