

Title (en)

CLAY ENCLOSED TRANSITION AND RARE EARTH METAL IONS AS CONTRAST AGENTS FOR THE GASTROINTESTINAL TRACT.

Title (de)

ÜBERGANGS- UND SELTENERD-METALLIONEN EINGEBUNDEN IN TON ALS KONTRASTMITTEL FÜR DEN MAGEN-DARM-TRAKT.

Title (fr)

IONS DE METAUX DE TRANSITION ET DE TERRE RARE ENFERMES DANS UNE ARGILE ET UTILISES COMME AGENTS DE CONTRASTE POUR LES VOIES GASTRO-INTESTINALES.

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9325895A1] The invention relates to compositions and methods of using clay-enclosed paramagnetic ions as image brightening or image contrast agents. In particular, T1 relaxivity measurements on Hectorite and montmorillonite clay-enclosed trivalent gadolinium suggest improved imaging over zeolite-enclosed paramagnetic species. Clay-enclosed gadolinium complexes are amenable to convenient administration in oral preparations and are readily formulated in stable aqueous suspensions. Other transition metal ions, including divalent manganese, may be enclosed in the clay structures, either as free metals or in the forms of chelated complexes. Alternatively, improved relaxivities are envisioned for clays incorporating a paramagnetic metal ion as part of the framework structure.

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Citation (search report)

- [Y] WO 8909625 A1 19891019 - COCKBAIN JULIAN R M [GB], et al
- [Y] J.J. LISTINSKY ET AL.: "GASTROINTESTINAL CONTRAST AGENTS: A DIAMAGNETIC APPROACH", MAGNETIC RESONANCE IN MEDICINE., vol. 8, no. 3, 1 November 1988 (1988-11-01), DULUTH,MN US, pages 285 - 292, XP000003029
- [Y] PATENT ABSTRACTS OF JAPAN vol. 15, no. 167 (C - 827)<4695> 26 April 1991 (1991-04-26)
- See references of WO 9325895A1

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