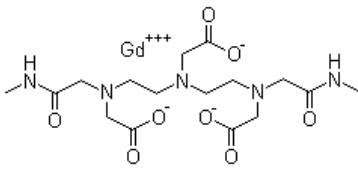


**HANGZHOU DINGYAN CHEM CO., LTD**

Tel:86-571-87157530 Fax:86-571-87156470

Email:sales@dingyanchem.com

CERTIFICATE OF ANALYSISNO: **DYC051512022**

Product name	Gadodiamide
CAS Number	131410-48-5
Molecule Structure	
Molecule Formula	C₁₆H₂₆GdN₅O₈
Batch number	20150305
Manufacture Date;Expiry date	2015-03-05;2018-03-04
Testing date	2015-03-05

Items	Standard	Result
Appearance	white crystals	conforms
purity	99.0%min	99.1%
Identification	A:Infrared absorption Should conforms with the standard spectrum B:The maximum absorption at the relevant wavelength specified	Conforms Conforms
Microbial limits	500cfu/g	20cfu/g
Bacterial endotoxins	<3.5Eu/mg	Conforms
Water content	Between 3.0% and 14.0%	9.32%
Limit of free gadolinium(III)	Not more than 0.3%(anhydrous basis)	Not finding
Limit of free Diethylenetriamine pentaacetic acid bismethylamide	Not more than 0.7%(anhydrous basis)	0.01%
Limit of methylamine	Not more than 0.05%	0.00%
Limit of acetone, ethyl alcohol, isopropyl alcohol	Acetone Not more than 0.2% Ethyl alcohol Not more than 0.2% Isopropyl alcohol Not more than 0.2% Total impurity Not more than 0.2%	0.006% 0.008% 0.008% 0.02%



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Related comounds	Impurity A Not more than 2.0%	0.02%
	Impurity B Not more than 2.0%	0.11%
	Individual Impurity Not more than 0.2%	0.13%
	Total Impurity (except of Impurity A&B) Not more than 0.5%	0.13%
	Content of gadolinium	26.0~29.0%
Assay	97.0~103.0%	99.6%
Conclusion	Conforms with USP32 standard.	

QUALITY CONTROL: *Hangzhou Dingyan Chem Co., Ltd.*
Quality Control *Lucy Tang*
Signature(s)

CHECK: 姚仙娟

INSPECTOR: 刘清风