

21 September 2016

Examples of common Liquid State NMR Applications.

- Biopolymers: such as PGLA, identification, monomer content and residual monomers
- Absolute Structure determination of purified organic compounds
- Speciation of Inorganic complexes
- Heparin: quality control using latest USP monograph testing for over sulphated chondroitin sulfate and other impurities
- Poloxamer: weight and % oxyethylene
- Chitosan: % deacetylation
- Silicone: polydimethylsiloxane
- Quantitative ¹³C NMR of polyethylene and polypropylene
- Quality control of Aloe Vera
- Polymer Tacticity
- Flavonoid identification

Test	Application	Monographs
	<i>General NMR method</i>	<i>USP, EP 2.2.33, ASTM E386</i>
Alginate	Chemical composition and sequential structure from ¹ H and ¹³ C	ASTM F2259
Amyl Nitrite	¹ H Identification	USP
Buserelin	¹ H Identification	EP
Chitosan	% Deacetylation, ¹ H	ASTM F2260
Cod-liver Oil	¹³ C Identification and positional Distribution ($\beta(2)$ -acyl) of fatty acids	EP
Enoxaparin	¹³ C Identification	USP
Gadoversetamine	Hydroxypropyl Betadex	USP
Goserelin	¹³ C Identification	EP
Heparin	¹ H Identification and OSCS screening	USP, EP
Hydroxypropyl Betadex	¹ H Molar Substitution	USP, EP
Lauromacrogol	¹³ C-Average chain length of fatty alcohols and moles of ethylene oxide	EP
Medronic Acid	¹ H Identification and Impurity determination	EP
Orphenadrine Citrate	¹ H-Isomer Content	USP
Oxytocin	¹ H-Identification	USP
Poloxamer	¹ H-Weight % Oxyethylene	USP
Polyoxyl 10 Lleyl Ether	¹ H-Average polymer length	USP
Poly lactide and glycolide	¹ H, ¹³ C- Identification, residual monomer, lactide/glycolide ratio	ASTM F2579, F1925, F2313
Polyoxyl 20 Cetostearyl Ether	¹ H-Average polymer length	USP
Salmon Oil	¹³ C-Identification and Positional Distribution ($\beta(2)$ -acyl) of fatty acids	EP
Simethicone	¹ H- Identification	



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