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BIBLIOGRAFIA

Tema: Disolución de Ketoprofeno usando arginina como coadyuvante en la preparación de inyectables

Fecha: 1/07/99

Quantitative Fourier transform infrared/attenuated total reflectance analysis of ketoprofen in some pharmaceutical formulations.

Van Overbeke, A.; Baeyens, W.; Van den Bossche, W. (Laboratory of Drug Analysis, Department of Pharmaceutical Analysis, Faculty of Pharmaceutical Sciences, University of Ghent, Harelbekestraat 72, Ghent B-9000, Belg.). Vib. Spectrosc., 9(2), 121-30 (English) 1995. CODEN: VISPEK. ISSN: 0924-2031.

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quant. Fourier transform IR/attenuated total reflectance anal. of ketoprofen in pharmaceuticals

J Microencapsul 1992 Jul-Sep;9(3):365-73

Preparation and in vitro evaluation of slow release ketoprofen microcapsules formulated into tablets and capsules.

el Khodairy KA, Eshra AG, Nada AH, Mortada SA

Department of Industrial Pharmacy, Faculty of Pharmacy, Alexandria University, Egypt.

Ketoprofen powder was encapsulated with Eudragit RL/RS polymer solutions in isopropanol-acetone 1:1, using a simple and

rapid method. Microcapsules were prepared using Eudragit solutions with different RL/RS ratios. The encapsulation process

produces free-flowing microcapsules with good drug content and marked decrease in dissolution rate. The retardation in

release profile of ketoprofen from microcapsules was a function of the polymer ratio employed in the encapsulation process. In

vitro release of ketoprofen from microcapsules either filled in gelatin capsules or compressed into tablets, using calcium sulphate

as diluent, confirmed the efficiency of the encapsulation process for preparing prolonged release medication. A capsule

formulation with optimum sustained-release profile was suggested.

Sem Hop 1983 Dec 12;59(46):3187-90

[Pharmacokinetic profile of a slow-release ketoprofen preparation].

[Article in French]

Flouvat B, Stheneur A, Massias P

Kinetics of ketoprofen release in man from a sustained-release preparation (150 mg) and from capsules (3 X 50 mg) were

studied comparatively in 10 healthy adults. Bioavailability of the slow-release preparation is similar to that of capsules : surfaces

under the serum concentration curves and urinary elimination were found to be identical. In the sustained-release preparation

the immediately available layer (75 mg) ensures achievement of maximal serum concentrations amounting to 59% of those

obtained with capsules, after the same time interval. The slow-release layer (75 mg) produces higher serum concentrations from

the third hour on, justifying administration of the formulation in two daily doses.

Pathol Biol (Paris) 1998 May;46(5):355-9

[Impact of the method and timing of administration on the systemic

[Article in French]

Delhotal Landes B, Decout N, Molinier P, Flouvat B

Laboratoire de Toxicologie et de Pharmacocinetique, Hopital Ambroise Pare, Boulogne-Billancourt, France.

The pharmacokinetics of the non-steroidal antiinflammatory drugs are influenced by circadian rhythms and ketoprofen (K)

absorption by food, to investigate the influence of these two factors, 12 subjects were treated, in random order, orally by a fast

release tablet (FR 100 mg), by a fast-slow release tablet (FSR 150 mg) and by an intramuscular solution (i.m. 100 mg). The 3

treatments were administered, with a standardized meal, at 8 h a.m and 8 h p.m, and also at 1 h p.m with FR. The daily dosing

was 300 mg by oral administration and 200 mg by i.m. route. Serum concentration profiles of K were determined by HPLC.

The pharmacokinetic parameters of K were not modified by the time of intramuscular injection. The oral absorption of K

(Tmax) was significantly delayed at 1 h p.m and more even at 8 h p.m. The maximal serum concentration (Cmax) was

significantly decreased at 1 h p.m (about 50%, p < 0.001) and also at 8 h p.m. The oral bioavailability, evaluated by the area

under the K serum concentration curve, was not modified, those of FSR was significantly lower than FR (6%, p < 0.05). This

study shows that the time of K administration delayed the Tmax and food decreased the Cmax without loss of bioavailability.

Publication Types:

Clinical trial Randomized controlled trial

Improvement of Dissolution Efficiency of Ketoprofen by Solvent Deposition Technique. Author(s) Chowdary, K.P.R. Krishna, S. Rama Journal Info Indian journal of pharmaceutical sciences. NOV 01 1990 v 52 n 6 269 Title Physical characterstics and dissolution kinetics of solid dispersions of ketoprofen and polyethylene glycol 6000. Author(s) Margarit, M.V. Rodriguez, I.C. Cerezo, A. Journal Info International journal of pharmaceutics. AUG 01 1994 v 108 n 2

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115: 99108u Pharmacokinetics of fluocinolone acetonide in patch versus cream formulations. Broggini, M.; Benvenuti, C.; Botta, V.; Broccali, G. (Med. Dep., Filippo del Ponte Hosp., Varese, Betta, V.; Broccali, G. (Med. Dep., Filippo del Ponte Hosp., Varese, Italy). Int. J. Clin. Pharmacol. Res. 1991, 11(1), 17-21 (Eng). The pharmacokinetics of the fluocinolone acetonide patch contg. 8 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm² and to 0.25% cream were studied in a cross-over trial in 12 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm² and a 0.025% cream were studied in a cross-over trial in 12 mcg/cm². significant difference was found between the two formulations with regard to peak plasma concn., time to reach peak levels, area under the concn. curve, and half-life.

115: 99109v Improvement of dissolution efficiency of ketoprofen

115: 99109v Improvement of dissolution efficiency of ketoprofen by solvent deposition technique. Chowdary, K. P. R.; Krishna, S. Rama (Dep. Pharm. Sci., Andhra Univ., Waltair, India). Indian J. Pharm. Sci. 1990, 52(6), 269-71 (Eng). Solvent deposited systems of ketoprofen using different excipients showed marked increase in the dissoln. rate and efficiency. Water insol. excipients gave fast dissoln when compared to water sol. excipients.

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the dissoln. rate and efficiency. Water insol. excipients gave fast dissoln when compared to water sol. excipients.

115: 99110p Preparation and evaluation of cellulose acetate microcapsules of theophylline. Chowdary, K. P. R.; Ratna, J. Vijaya (Dep. Pharm. Sci., Andhra Univ., Waltair, India). Indian J. Vijaya (Dep. Pharm. Sci., Andhra Univ., Waltair, India). Indian J. Microencapsulated with cellulose acetate by a complex emulsion microencapsulated with cellulose acetate by a complex emulsion method and the microcapsules were studied. Controlled drug release which depended on percent coat material and size of the microcapsules which depended on percent coat material and size of the microcapsules which depended on percent coat material and size of the microcapsules which depended on the service of the microcapsules which depended on the service of the microcapsules and good correlation between percent coat material and Tso value are obsd. Drug release mechanism was found to be of diffusion type. Release followed first order kinetics.

115: 99111q Effect of food on the bioavailability of cyclandelate from commercial capsules. Kaniwa, Nahoko; Ogata, Hiroyasu; Aoyagi, Nobuo; Ejima, Akira; Takahashi, Terutaka; Uezono, Yuko; Aoyagi, Nobuo; Ejima, Akira; Takahashi, Terutaka; Uezono, Yuko; Clin. Pharmacol. Ther. (St. Louis) 1991, 49(6), 641-7 (Eng). Clin. Pharmacol. Ther. (St. Louis) 1991, 49(6), 641-7 (Eng). The bioavailability of five capsules of cyclandelate that are communication and the capsules was demonstrated urine. Bioinequivalence among the five capsules was demonstrated urine. Bioinequivalence among the five capsules was demonstrated the relative cumulative excretion of mandelic acid of the most. The relative cumulative excretion of mandelic acid of the most poorly bioavailable capsule was 38% of the most highly bioavailable capsules was investigated by use of two different kinds of food, one capsules was investigated by use of two different kinds of food, one capsules was investigated by deformed and prove

drug administration.

115: 99112r Physicochemical properties and stability of moclobemide. Ogawa, Norio; Kobayashi, Tetsuro; Nakai, Sachihiko; Clobemide. Ogawa, Norio; Kobayashi, Tetsuro; Nakai, Sachihiko; Takahashi, Naoko; Tsutsumi, Masae; Ezawa, Toshikazu (Res. Takahashi, Naoko; Tsutsumi, Masae; Ezawa, Masae; Ezawa, Tsutsumi, Masae; Ezawa, Tsutsumi, Masae; Ezawa, Tsutsumi, Masae; Ezawa, Tsutsu

monoamine oxidase (MAO) inhibitor, was subjected to elemental anal., and UV, IR, NMR, and mass spectrometric analyses, as well as to measurements of its physicochem, properties, i.e., soly., partition coeff., pka, m.p., thermal anal., polymorphism, etc. Prior to the initiation of the stability test of I, two degrdn. products formed under severe conditions were isolated and identified. The stability of I was mainly studied by TLC and HPLC. I in the solid state was very stable to heat, moisture, and light. In aq. soln., I was stable in the region of pH 3-9.

the region of pH 3-9.

115: 99113s The interconversion of the polymorphic forms of chloramphenicol palmitate (CAP) as a function of environmental chloramphenicol palmitate (CAP) as a function of environmental temperature. De Villiers, M. M.; Van der Watt, J. G.; Lotter, A. P. (Dep. Pharm., Potchefstroom Univ., Potchefstroom, 2520 S. Afr.). Potchef Drug Dev. Ind. Pharm. 1991, 17(10), 1295-303 (Engl. When Drug Dev. Ind. Pharm. 1991, 17(10), 1295-303 (Engl. When completely to the less sol. and less bioavailable polymorph A. When completely to the less sol. and less bioavailable polymorph A. When polymorph C, the most sol. polymorph, is grinded for a prolonged polymorph c, the most sol. polymorph at the effect that heat generated investigated. This was done to det. the effect that heat generated during grinding could have on polymorph C. Samples of polymorph C was kept at 50 and 75° resp. At predetd, intervals samples were C was kept at 50 and 75° resp. At predetd, intervals samples were withdrawn and DSC curves and x-ray powder diffractograms recorded. Both samples changed to polymorph B but only the sample kept at 75° changed into A during the time the expt. was run. Therefore temp. control during storage and handling, esp. grinding, on polymorph C and B is recommended to prevent conversion to the poorly sol. and less bioavailable polymorph A.

115: 99114t Effect of dye content on point of zero charge of anionic lake dyes. Desai, Archana; White, Joe L.; Hem, Stanley L.; Peck, Garnet E. (Dep. Ind. Phys. Pharm., Purdue Univ., West Lafayette, IN 47907 USA). Drug Dev. Ind. Pharm. 1991, 17(10), 1405-9 (Engl. The pure dye content of FD&C yellow lake no. 5 and FD&C red lake no. 40 was inversely related to the point of zero charge. The effect of the adsorbed anionic dye on the zeta potential charge. The effect of the adsorbed anionic dye on the zeta potential charge. the region of pH 3-9.

115: 99113s The interconversion of the polymorphic forms of

115.99115u A new predictive equation for the solubility of the part of the par

121: 91543k Controlled release of triamterene from poly(DL-clactide-co-glycolide) microspheres. Ouellette, Amy D.; Peppas, Nicholas A. (Inst. Biosci. Bioeng., Rice Univ., Houston, TX 77251 USA). Mater. Res. Soc. Symp. Proc. 1994, 331(Biomaterials for Drug and Cell Delivery), 91-6 (Eng). Release of triamterene from 150-3000-µm poly(DL-lactide-co-glycolide) (PLGA) microspheres was investigated in vitro as a function of lactic acid/glycolic acid (LA/GA) copolymer ratio and drug loading both with free microspheres and with microspheres embedded in a silicone matrix. Biphasic release consisting of diffusion controlled release followed by erosion controlled release corresponding to polymer degrdn. was obsd. in all 121: 91543k Controlled release of triamterene from poly(DL-= controlled release corresponding to polymer degrdn. was obsd. in all samples. Drug release from PLGA 50:50 copolymer microspheres was 3-fold faster than the release from PLGA 75:25 microspheres for the higher drug loading (20 wt%) and slightly faster for the lower drug loading (10 wt%). Release rates from spheres contg. the higher drug loading were approx. one order of magnitude faster than release from spheres contg. the lower drug loading for the same PLGA copolymer. The same qual. results were obsd. for the spheres embedded in

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one matrixes; however, the overall release was much slower. The asse behavior may be altered by changing LA/GA copolymer ratio, drug loading, and microsphere environment to obtain the desired release characteristics.

release characteristics.

121: 91544m Compatibility of cyclizine lactate solutions with chloride ion. Dwyer, P. J.; Weir, P. J.; Ireland, D. S.; Taylor, C. G. (Quality Control Lab., Countess Chester Hosp., Chester, UK CH2 1BQ). Anal. Proc. 1994, 31(5), 157-8 (Eng). The compatibility of an anti-emetic with the Cl of an analgesic was investigated by means of HPLC and UV-visible spectrophotometry. The soly. of the anti-emetic, cyclizine, deviated from theor. values as a result of counterty and the effect of counter ions.

supersatn. and the effect of counter ions.

121: 91545n Protein kinase C inhibitors suppress LPS-induced TNF production in alveolar macrophages and in whole blood: the role of encapsulation into liposomes. Tschaikowsky, Klaus (Respiratory Biology Program, Department of Environmental Science and Physiology, Harvard School of Public Health, Boston, MA 02115 USA). Biochim. Biophys. Acta 1994, 1222(1), 113-21 (Eng). Tumor necrosis factor (TNF) is a pivotal mediator of endotoxin. shock, but the regulation of lipopolysaccharide (LPS)-induced TNF prodn. in different populations of mononuclear cells has not been fully clarified. Protein kinase C (PKC) is thought to play a central fully clarified. Protein kinase C (PRC) is thought to play a central role in signal transduction in response to inflammatory stimuli. The authors studied the effect of two PKC inhibitors, staurosporine (STP) and sphingosine (SPG), on TNF prodn. in rat alveolar macrophages (AM) and in whole blood (BM) incubated with 0.25-25 000 ng/mL of LPS. The authors also assessed the role of STP encapsulation into pH-sensitive and pH-insensitive liposomes composed of cholesterol hemisuccinate/dioleoylphosphatidylethanolamine

composed of cholesterol hemisuccinate/dioleoylphosphatidylethanolamine and cholesterol hemisuccinate/distearylphosphatidylcholine, resp. "PS induced a dose-dependent TNF response that was 2.5-4.5-times her in AM than in BM with the same amt. of monocytes. SPG and STP significantly reduced TNF in both cultures by 40-96%. Encapsulation of STP into pH-sensitive, but not pH-insensitive liposomes, significantly increased the effectiveness of TNF suppression. The authors conclude that the LPS-induced TNF prodn. by AM and BM is strongly dependent on PKC activation. However, AM were less sensitive to PKC inhibition than BM.

121: 91546p Interaction of taxol and other anticancer drugs

121: 91546p Interaction of taxol and other anticancer drugs 121: 91546p Interaction of taxol and other anticancer drugs with hydroxypropyl- β -cyclodextrin. Cserhati, Tibor: Hollo, Janos (Central Research Institute for Chemistry, Hungarian Academy of Sciences, P.O. Box 17, 1525 Budapest, Hung.). Int. J. Pharm. 1994, 108(1), 69-75 (Eng). The interaction between 23 anticancer drugs and hydroxypropyl- β -cyclodextrin (HP β CD) was studied by reversed-phase charge-transfer thin-layer chromatog. and the relative strength of interaction was calcd. HP β CD formed interaction was calcd. the relative strength of interaction was calcd. HP\$CD formed inclusion complexes with 15 compds., the complex always being more hydrophilic than the uncomplexed drug. The inclusion forming capacity of drugs differed considerably according to their chem. structure. The intensity of interaction significantly increased with increasing hydrophobicity of the guest mol., demonstrating the preponderant role of hydrophobic interactions in inclusion complex formation.

121: 91547q Physical characteristics and dissolution kinetics of solid dispersions of ketoprofen and polyethylene glycol 6000.

Margarit, Maria Victoria; Rodriguez, Ines Carmen; Cerezo, Antonio (Department of Pharmacy and Pharmaceutical Technology, School of Pharmacy, University of Granada, Granada, Spain E-18071). Int. J. Pharm. 1994, 108(2), 101-7 (Eng). The formation of solid dispersions is an effective method of increasing the dissoln rate of poorly sol. drugs, and hence, of improving their bioavailability. The poorly sol, drugs, and hence, of improving their bloavailability. The authors used the dissoln. method to prep. solid dispersions of ketoprofen and polyethylene glycol 6000 (PEG 6000), and compared the dissoln. kinetics of the dispersions with phys. mixts. and pure drug. Physicochem. characteristics were detd. by x-ray diffractometry and differential scanning calorimetry. Drug/polymer mixts. contg. up to 50% ketoprofen formed eutectic compds. The results of dissoln. kinetics studies showed that PEG 6000, when used as a carrier for solid dispersions, increased the dissoln. rate of ketoprofen. The tags of dissoln, for pure drug (88.5 min) decreased to 1.9. 4.0 and The teon of dissoln for pure drug (88.5 min) decreased to 1.9, 4.0 and 22.5 min, resp., in solid dispersions contg. 10:90, 50:50 and 90:10 proportions of ketoprofen/PEG 6000. That the 10:90 solid dispersion displays the best dissoln. kinetics of those tested.

formulation is described in which nonionic formulation is described in an aq. phase which is (niosomes) are dispersed in an aq. phase which is continuous phase. The resultant vessions (niosomes) are dispersed in an aq. pnase which is an nonaq. continuous phase. The resultant verification of the continuous phase. The resultant verification of the formulation, stability and characteristics asystems are described. The nonionic surfactants vesicles (niosomes) are also employed in the eminimize surfactant redistribution. The relation of the continuous surfactant used for prepared the continuous surfa of the nonionic surfactant used for prepn. of the very the in vitro release of 5(6)-carboxyfluorescein (CP) in the system was investigated, controls being was and a vesicle suspension. A range of v/w/o system niosomes made from nonionic surfactants (sorbitan 20, 40, 60 and 80) in the size range 600 nm-3.4 µm droplets of around 5-25 μ m themselves dispersed in hexadecane, iso-Pr myristate). The in vitro showed a decrease in the order free soln.>veside emulsion>v/w/o emulsion. The rate of release of O the vesicles in the v/w/o system depends on the surfactants used. The hydrophobicity of the Span surfactants used. The hydrophobicity of the Span appropriate of vesicles and the v/w/o emulsion had a six on the release rate. In the Span 60 formulation, the at the slowest, because Span 60 has the highest phase and the v/w/o formulation gelled at both 25 and 37°, the oil phase affected release as might be partitioning behavior of CF. With increasing increased in Span 40 and Span 80 systems, but the Span 60 system due to the maintenance of the 121: 91549s In vitro evaluation of a series of section.

121: 91549s In vitro evaluation of a series of a J. (Department of Pharmacy, The Robert Corbinston of the Schoolhill, Aberdeen, UK AB1 9FR). Int. J. Pharm. 141-8 (Eng). The effect of a series of sodium carbon percutaneous penetration across neonatal rat strat was investigated. SC was pretreated with surfactant at the crit. micelle concn. and also at 1 mM coccastudies were carried out on pretreated SC using flow accells and [14C]propan-2-ol as the penetrant. Eshawere calcd. from the permeability coeff. (Kp) of the secondard to untreated controls. DSC was used to min the lipids within the SC following pretreated in the lipids within the SC following pretreated the surfactants. All the surfactant treated samples showed Kp with a maximal effect being seen with the Cu series. In addn., there is a good correlation between the ratio and the decrease in lipid peak temps. As making the surfactants increased permeability by models. was investigated. SC was pretreated with surfacta The surfactants increased permeability by modes

the effects of such compds.

121: 91550k Solubility of theophylline is methylformamide mixtures. Gonzalez, A. Gustar Angeles; Asuero, Agustin G. (Department of Anaturisty of Seville, Seville, Spain 41012). Int. 108(2), 149-54 (Eng). The solubilities of theory of the seville, Spain 41012 int. 108(2), 149-54 (Eng). The solubilities of the behavior. The results were treated on the beast Hildshrand salv approach considering interest. Hildebrand soly. approach, considering interaction equation was obtained for predicting the soly. DMF, water and their mixts., allowing the interp

missing solubilities in these blends.

121: 91551m Influence of drug release rate absorption from polymeric ocular inserts is rabbit. Lee, Vincent H. L.; Li, Shao Yong, Fabrizio Saettone, M.; Chetoni, Patrizia (Scherica) University of Southern California, Los Angeles, CA University of Southe ocular inserts, regardless of the nature of the poly reduce systemic drug absorption. This may not however, since not all polymers would release drug and to the same extent. The objective of the production of det. how drug release rate from various polymeric influence systemic timolol absorption in the pinnerts tested were made of poly(vinyl alc.) (PVMMA), approx. 89.4% wt./wt. polyvinyl alc. inserts contained timolol in serts contained timolol concn. in plasma (Cmax), only the pva which released timolol rapidly in vitro, reduced the contained timolol concn. PVA-C940 and PVMMA inserts, which release slowly in vitro, increased the extent of systemic moreover, the time at which peak timolol concn. Moreover, the time at which peak timolol control plasma was much delayed, raising the possibility absorption until discharge of the presumable mucoadhesive solns. of PVA-C940 and pvaluability. Not all polymeric ocular inserts rabsorption. Whether an insert would do so departs of residence time in the conjunctival sac and from the insert.

from the insert.

121: 91552n Pharmacokinetics of etoposis bioerodible drug carrier implanted at the bioerodible drug carrier implanted than the bioerodible drug carrier implanted at the bioerodible drug carrier implanted than the bioerodible drug carrier implanted at the bioerodible drug carrier implanted than the bioerodible drug carrier implanted at the bioerod

glaucoma filtratio bution of etopos bits. Disks compo propane and sena ents. 1 mg of 3F posterior lip scle were euthanized 30 µg/day, exc h postoperative d state levels av ng/mL in the v Heible. Thee con led-release devices reliferation humor, other

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Fanciclovir so NY USA). An The stability of polypropylene 9.9% NaCl inje in polypropylen ef thrombosis merization of merization of MiChowdhury, S Maffrey A. (I feffrey A. (L. feffrey A. (L. feffrey A. 1994 ed on the inn an. dramatical d the synthesi seel wall, directions. The illumination has mess of the ba to degrade b the hydrogel l d preserved le long-term in suggest that ng play an i

Md Interaction Straubinger, I University o chemistry diterpenoid valuation. in excipien in better-t in better-t investigated ith dipalmite ice, CD, dif and x-ray di was simi in. Taxol v drocarbon c ctexol fluore the bilayer. on, and the eyer such as from basols nonstrate the acyl c