BIBLIOGRAFIA

Tema: TAMSULOSIN

Fecha: 25/10/99

WinSPIRS 2.1

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Solicitud
No
       Registros
                     rofecoxib
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                     rosiglitazone
                     tamsulosin
                2
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Registro 1 de 2 - Analytical Abstracts

Highly sensitive method for the determination of tamsulosin hydrochloride in human plasma dialysate, plasma and urine by high-performance liquid chromatography-electrospray tandem T1: mass spectrometry.

Matsushima, -H; Takanuki, -K; Kamimura, -H; Watanabe, -T; Higuchi, -S AU:

Yamanouchi Pharm. Co., Drug Metabolism Lab., Itabashi-ku, Tokyo 174, Japan AD:

CP:

J-Chromatogr, -B:-Biomed-Appl. 1 Aug 1997; 695(2): 317-327 SO:

Journal-of-Chromatography, -B:-Biomedical-Applications JN:

iS: **JCBBEP** co:

1997 PY:

English LA:

Plasma dialysate was treated with (+/-)-(R)-5-(3([2-(o-ethoxyphenoxy)ethyl]amino|butyl)-PT: 2-methoxybenzenesulfonamide hydrochloride, as internal standard, and saturated NaHCO3, before extraction with ethyl acetate. Plasma and urine were treated similarly but with extraction with hexane/ethyl acetate (7:3). Each extract was evaporated to dryness, and the residue was dissolved in the mobile phase for HPLC on a 5 micro m JP2Sphere ODS-80H column (75 mm x 4.6 mm i.d.) with, as mobile phase (0.5 ml/min), methanol/50mM-acetic acid (3:2) adjusted to pH 4.0 with 50mM-ammonium acetate. Electrospray ionization MS-MS was carried out with selected reaction monitoring for <u>tamsulosin</u> hydrochloride and the internal standard. An in vivo protein binding study is reported. Calibration graphs were linear for 10-1000 pg/ml for plasma dialysate, 0.5-50 ng/ml in plasma and 1-100 ng/ml for urine. The intra-day RSD (n = 6) were 5.0-17.78 in dialysate, 2.4-13.38 in plasma and 3.6-18.98 in urine; the inter-day RSD was 3.3-6.78 (n = 18) 3.6-18.9% in urine; the inter-day RSD was 3.3-6.7% (n = 18).

tamsulosin-A: [106133-20-4]. detmn. of, in plasma and urine, by HPLC-tandem electrospray IA:

blood-plasma-M: detmn. of <u>tamsulosin</u> in, by HPLC-tandem electrospray MS; urine-M: detmn. of <u>tamsulosin</u> in, by HPLC-tandem electrospray MS IM:

chromatography, -liquid, -high-performance-C: coupled with tandem electrospray MS, in IC: pharmaceutical analysis;

mass-spectrometry, -electrospray-C: tandem, coupled with HPLC, in pharmaceutical analysis

G-Pharmaceutical-Analysis SC:

11502 SS:

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5912500094 AN:

UD: Registro 2 de 2 - Analytical Abstracts

Determination of alphal-adrenoceptor antagonists in plasma by radioreceptor assay.

TI:

Yamada, -S; Tanaka, -C; Suzuki, -M; Ohkura, -T; Kimura, -R; Kawabe, -K Univ. Shizuoka, Dept. Biopharm., School Pharm. Sci., Shizuoka 422, Japan AU: AD:

CP:

J-Pharm-Biomed-Anal. Jan 1996; 14(3): 289-294 SO:

Journal-of-Pharmaceutical-and-Biomedical-Analysis JN:

0731-7085 IS:

JPBADA CO:

1996 PY:

LA: English PT:

Plasma was stirred with methanol and the mixture centrifuged at 15 000 g for 15 min. The supernatant was vortex mixed with 0.01M-NaOH and diethyl ether for 1 min, centrifuged and AB: the diethyl ether phase was evaporated to dryness under N2. The residue was dissolved in methanol and mixed with rat cerebral cortical membranes and 0.2nM-[3H]prazosin in 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25degreeC for 1 h, 50mM-Tris hydrochloride buffer of pH 7.4. The mixture was incubated at 25de buffer. The filters were extracted overnight in scintillation solution comprising toluene, Triton X-100, 2,5-diphenyloxazole and 1,4-bis[2-(5-phenyloxazoly1)]benzene and the radioactivity was determined by liquid scintillation counting. Logit-log calibration graphs were linear for 0.1-30 pmol prazosin hydrochloride per assay, 0.1-30 pmol bunazosin hydrochloride and 0.01-30 pmol tamsulosin hydrochloride with detection limits of 0.2, 0.3 and 0.05 pmol, respectively. The intra-assay RSD (n = 5) for prazosin hydrochloride were 9.1-9.2% and the inter-assay RSD (n = 5) were 5.9-6.3%.

IA: prazosin-hydrochloride-A: [19237-84-4]. detmn. of, in plasma, by liquid scintillation

tamsulosin-A: detmn. of, in plasma, by liquid scintillation counting; bunazosin-hydrochloride-A: detmn. of, in plasma, by liquid scintillation counting

blood-plasma-M: detmn. of bunazosin hydrochloride, prazosin hydrochloride and tamsulosin IM: in, by liquid scintillation counting

scintillation-counting, -liquid-C: in pharmaceutical analysis IC:

G-Pharmaceutical-Analysis SC:

10902 SS:

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114: 74603t De

Page 5

Page 17

Vol. 128, No. 18, 1998 Chemical Abstracts 1 Pharmacology

212595

J. Pharmacokinet Biopharm 1997, 25(3), 349-362 (Eng). Plenum A novel method is described for assessing doing bio Publishing Corp availability from pharmacol data. The method is based upon a generalized model for the relation between the obsd effect (E) and the input rate (f): $E=q(c_{p,0} \circ f)$, where * denotes convolution, $c_{p,0}$ is effect site unit impulse response ("amt," of drug at the effect site resulting from the instantaneous input of a unit amt of drug) and y is transduction func-tion (relates "amt." of drug at the effect site to E). The functions y and con are expressed as cubic splines for max versatility. Pharmacol data collected after the administration of two different doses by 1 v. infusion are analyzed simultaneously to est, the function parameters. This expt! design addresses the fact that q and concentration to uniquely estd from the results of a single dose expt. The unknown f from a test treatment is then estd by applying an implicit deconvolution method to the pharmacol data collected during that treatment. The method was tested with simulated data. The method and the model were further evaluated by application to a clin. study of verapamil (V) pharmacodynamics in 6 healthy volunteers. Simulations showed that the method is accurate and precise in the presence of a high degree of measurement error, but large intrasubject variability in the model functions can result in biased exts of the amt_absorbed. The method produced reasonably accurate exts of the V input rate and systemic availability (F) in the 6 human volunteers though there was a trend towards underestimation (estd total FG-93.6 vs. the true F% of 100)

128-212588j HPTLC determination of isoniazid and acetyliso-

niazid in serum. Comparison with HPLC. Habel, D., Guermouche, S., Guermouche, M. H. (Institut de Chimie, USTHB, Algiers, Algeria). J. Planar Chromatogr. ---Mod. TLC 1997, 10(6), 453-456 (Eng), Research Institute for Medicinal Plants Quant detn. of isoniazid (INH) and its acetyl metabolite (AcINH) in blood serum by high performance thin -layer chromatog. (HPTLC) was optimized. Alkalized serum samples with nicotinamide as an internal std-were deproteinized with (NH₄)₂-SO₄ and extd-with chloroform/butanol (95.5). One-dimensional HPTLC was performed on silica gel plates with Et acetate—methanol (70.30) as a mobile phase. Quantitation was done by densitometry. Calibration curves were constructed and detection limits, precision, and repeatability for INH and AciNH anal were established. The method was compared with HPLC and satisfactory correlation was found between data from the two techniques. The HPTLC method is sensitive and specific and was used to quantify INH and AcINH in patient blood serum

7 128 212589k Radioreceptor assay analysis of tamsulosin and terazosin pharmacokinetics. Taguchi, Katsunari, Schafers, Rafael Michel, Martin C (Department of Medicine, University of Essen, 45122 Essen, Germany) Br J Clin Pharmacol. 1998, 45(1), 49-55 (Eng), Blackwell Science Ltd. A radioreceptor assay has been developed for α_1 -adrenoceptor subtypes and applied to a pharmacokinetic anal. of tamsulosin and terazosin. Young, male, healthy voluntiers received 0.4 mg tamsulosin (as Omnic® modified release capsules) or 5 mg terazosin (as Flotrin@ tablets) in a randomized, cross over design. Before and after 1, 3, 5, 7, 10 and 23.5 h plasma was analyzed by radioreceptor assay using cloned human α_{1A} ", α_{1B} " and α_{1D} -adrenoceptors and specific h p.l.c. anal. Following ingestion of tamsulosin, median peak plasma levels of 16 ng ml 3 were reached after 5 h and declined to 2 ng ml 1 at 23.5 h. The time course in the radioreceptor assay was similar, and at most time points binding to ala-adrenoceptors was significantly greater than to and and and adrenoceptors. Following ingestion of terazosin median peak plasma levels of 91 ng ml. 1 were reached after 1 h and declined to 11 ng ml. 1 at 23.5 h. In the radioreceptor assay binding also peaked at 1 h and declined thereafter, but even after 23 5 h considerable binding activity remained detectable at all three subtypes. At most time points binding to the aiA- and aip-adrenoceptor was significantly greater than to the air-adrenoceptor. We conclude that α_1 -adrenoceptor antagonist pharmacokinetics can be monitored by radioreceptor assays in a subtype -selective manner. Tamsulosin and tera-zosin exhibit subtype selective receptor binding ex vivo. The discordance between terazosin blood levels as detd. by h p.l c. and radioreceptor as say at late time points indicates the possible involvement of metabolites in in vivo terazosin effects.

128 212590d Platelet aggregation in response to collagen and thrombin reliably detects the ingestion of low dose aspirin. Muller, T. H.; Schmidt, S.; Schunter, F.; Reil, G. H. (Institut Oldenburg, DRK Blutspendedienst Niedersachsen, Sachsen - Anhalt, Oldenburg und Bremen, Oldenburg, Germany). Bette Infusionsther. Transfusionsmed 1997, 34(Transfusionsmedizin 1996/97), 105-109 (Eng), S. Karger AG A platelet aggregation assay to detect previous aspirin inges tion was evaluated. Platelet aggregation was evaluated ex vivo in 20 aspirin-treated (100 mg single oral dose/day) patients in comparison with a control group of 20 aspirin-free donors. The results demonstrate a significant redn in the collagen (2.5 µg/mL) induced platelet aggregation by aspirin treatment, whereas thrombin (50 mmol/L TRAP induced platelet aggregation was not affected at all. Assessment of collagen-induced platelet aggregation relative to platelet responses of the same subject elicited either by thrombin or by a combinaticollagen and thrombin does substantially improve the reli-

functional assays of aspirin.
128 212591e Reactivity of antineoplastic druge tides studied by advanced mass spectrom Carbone, Virginia, Pocsfalvi, Gabriella, Antonio (International Mass Spectroper Research Council, 80131 Naples, 1 504(Selected Topics in Mass S

413 425 (Eng). Kluwer Academic Publishers. The in vivo interaction of the antine-plastic drug 1/3 bis (2 chloroethyl)-1-nitrosourea (BCNI) and acrolein with model peptides has been investigated to provide a detailed description of their electrophilic reactivity towards biol. macromols. Following incubation with these substances, the modified species were sepd by HPLC and identified by fast atom bombardment mass spectrometry, whereas the reactive amino acids within the peptides structure were assigned by tandem mass spectrometry. Incubation with BCNU led essentially to the formation of an N-terminal carbamoyl deriv that slowly decompd to form three isomeric structures and a very minor ethylated adduct. Alkylation with acrolein gives rise to a mixt of different adducts due to the reaction of both the double bond and the carbonyl group. Two species contg. intramol. cross-links were also obsid. These results constitute the pre-requisite for in vitro and in vivo studies on the modification of Hb in patients following treatment with antineoplastic drugs

128 212592f An assessment of two gastric transport models currently used in safety pharmacology testing. Baldrick, P.; Bamford, D. G.; Tattersall, M. L. (Department of Toxicological Research, UCB SA, B. 1420 Braine- l'Alleud, Belg.). Hum. Exp. Toxicol. 1998, 17(1), -7 (Eng), Stockton Press. The potential effects of new drugs on the digestive system can be examd in a no. of model systems of which intestinal motility in the mouse and/or gastric emptying in the rat are examples recommended for safety pharmacol, evaluation. Intestinal motility, assessed by the transit of carmine dye in the mouse and gastric motility, assessed by stomach wt in the rat, were examd, using a range of clin. drugs or potent pharmacol, agents known to affect gastrointesti-nal function. Assessment of both models in the guinea-pig was also Activity was demonstrated with codeine, diazepam, atropine and CCK-8 (all of which inhibited gastric function) However, neither model gave consistent and reliable results with the remaining ref. compds , namely metoclopramide, bethanechol, cisapride, deoxycholate, carbachol and demperidene. In conclusion, this investigation questions the usefulness of simple models of gastrointestinal transport in the rodent as a means of detecting potential effects of a new drug on the digestive system. This finding should be of concern to the pharmaceutical industry as these simple models are routinely used as part of a regulatory safety "package" of studies

128 212593g Modification of model membrane by new bifunctional surfactants. Sarapuk, Janusz, Gabrielska, Janina; Przestalski, Stanislaw (Department of Physics and Biophysics, Agricultural University, 50-375 Wroclaw, Pol.) Curr. Top. Biophys. 1997, 21(1), 54-57 (Eng.), Wydawnictwo Protext. A no. of new bifunctional surfactants was synthesized for potential use them as compds, that can be incorporated into model or biol, membranes to protect them against lipid peroxidn, and its consequences. For that purpose the surfactants were provided with an antioxidant functional group. To anchor the surfactants in the membranes they had inbuilt hydrophobic alkyl chains of different lengths. They also differed between each other in some other details. The work contains results of studies on the interaction of the surfactants with model lipid membranes. The aim of our studies was to det, what possible concus of surfactants can be used to ensure membrane protection without drastic changes in its properties. Model membranes

used were planar lipid membranes (BLM) and liposomes.

128: 212594h Application of spectrophotometry to evaluation of the levels and the influence of chemotherapeutic drugs on ATP of malignant cell lines. Wang, Hongjing; Peng, Zhilan; Ding, Shining (Department of Obstetrics and Gynecology, The Second Affiliated Hospital, West China University of Medical Sciences, Chengdu, Peop. Rep. China 610041). Huaxi Yike Daxue Xuebao 1997, 28(3), 300-303 (Ch), Huaxi Yike Daxue The level and effects of ATP (ATP) in HELA and L₂₂₉ cell lines resp. derived from human cervical carcinoma and mouse fibroma were investigated. When the cellular nos. were ≥ 2 x 105, the relationship between the ATP concn. and the cellular nos. was linear in both cell types. When $L_{n/2}$ were incubated with cis-platinum (1x, 2x, 5x X plasma peak conen, PPC), ATP conen was decreased sedependently. No decrease of ATP conens, was obsd. after with adriamycin (1x, 2x, 5x X PPC). The results suggest sedependently. trophotometry is effective for studying the energy m ence of chemotherapeutic drugs on ATP concus

128 212595j Simultaneous determinati and 8-oxo-O6-benzylguanine in 1 phase high performance liquid L.; Ingalls, Stephen T; Mink! Stanton L. Spiro, Timo*
Pharmacology, Case W USA). J. Chrome: (Eng), Elsevi say for th was

authors and every hour during the reperfusion period. Myocardial infarct size in rabbits treated with GM1292 (two glucuronic acid residues)

114: 74591n A novel model of solitary hepatic tumor in rats using ascites hepatoma AH13: suitability for chemotherapeutic studies. Tamura, Yoshihiro; Sakata, Yuh; Tsushima, Kenichi; Narushima, Seiko; Yamada, Yasuhide: Ogasawara, Hitoshi; Ito, Tohru; Saitoh, Soh; Suzuki, Hidekazu; Yoshida, Yutaka (Sch Med., Hirosaki Univ., Hirosaki, Japan 036). Jpn. J. Cancer Res. 1990, 81(10), 1045-51 (Eng). A highly reproducible model of a solitary hepatic tumor in rats using sacites hepatoma AH13 has been solitary hepatic tumor in rats using sacites hepatoma AH13 has been solitary hepatic tumor at susing sacites hepatoma AH13 has been solitary hepatic tumor are necessary. solitary hepatic tumor in rats using ascites hepatoma AH13 has been developed using a two step method which was suitable for quantichemotherapeutic studies. Diffuse hepatic metastases were induced first by inoculation of three different ascites hepatomas, AH13, AH130 and AH7974 into the portal vein in a dose dependent fashion. Second, the induced hepatic tumor (3 × 107 cells) was minced into 1 × 1 × 4 mm fragments and implanted in the liver of normal rats. In this procedure, the AH13 strain proved best soited for the generation of a solitary hepatic tumor. The growth of the solitary liver tumor using AH13 was highly reproducible. To demonstrate the suitability of this solitary hepatic tumor model for the evaluation of chemotherapy, the tumor birdened rats were treated with adriamycin (ADR) and mitomycin C (MMC). The redu. In tumor size was proportional to dosage, and the statistical in tumor size was proportional to dosage, and the statistical significance of the differences between the treatment group and control group was proportional to dosage. A synergistic effect of ADR and MMC on the tumor also was demonstrated. This model should prove to be a useful tool for the testing of newly developed treatments of hepatic cancer.

5591

treatments of hepatic cancer.

114: 74592p Liquid chromatographic determination of 6-thiopurine metabolites formed in vitro in electrochemical and enzymic oxidative activation. Zhu, Shi Min; Brajter Toth, Anna (Dep. Chem., Univ. Florida, Gainesville, FL 32611 USA). Anal. Chim. Acta 1990, 237(2), 305-10 (Eng). A micellar liq. chromatog method was developed for the sepn. of the oxidn. metabolites of 6-thiopurine formed in vitro by electrochem, and enzymic activation. Electrochem. activation was carried out with an electrochem. cell online with the chromatograph. In the potential range 0.4 0.8 V vs. Pd, intermediate purine 6 sulfenic acid was detected together with purine 6-sulfinic acid and 6 thiopurine disulfide. At potentials >0.8 V, purine-6-sulfonic acid was detected and the oxidn. of 6 thiopurine was completed. Intermediates and products formed in the horseradish

V, purine-6-sulfonic acid was detected and the oxidn, of 6 thiopurine was completed. Intermediates and products formed in the horseradish peroxidase were similar to electrochem, oxidn, at <0.8 V. Detection of sulfenic acid in the enzymic oxidn, supports earlier results which indicated that this metabolite may have biol. significance. The results also provide some month into the enzymic oxidn, pathway. 114:74593q Screening and detection of nimetazepam and its major metabolites. Schoelermann, K.; Schuetz, H. (Inst. Rechtsmed., Justus Liehig Univ., D. 6300 Giessen, Fed. Rep. Ger.). Beitr. Gerichtl. Med. 1990, 48, 657-65 (Ger.) Nimetazepam dits metabolites. 7 aminonimetazepam, N. desmethylnimetazepam (nitrazepam), 2 methylamino. 5 nitrobenzophenone, 5 amino 2 (methylamino)benzophenone, and 2 amino 5 nitrobenzophenone were detd. in human urine using TLC, GC, mass spectrometry, and UV and IR-spectrometry.

detd. in human urine using TLC, GC, mass spectrometry, and Us and IR-apectrometry.

114: 74594r Analysis of N-methyl-4-piperidinyl benzilate. Hoehn, H.; Goeber, B.; Gabrio, T. (Wissenschaftsbereich Pharm., Humboldt-Univ., DDR 1120 Berlin, Ger. Dem Rep.). Pharmazic 1990, 45(8), 576:8 (Ger.) Attempts at the photometric detn. of the title anticholinergic compd. (I) in model solns. (MeOH or coned. H2SO4) gave unsatisfactory results. A capillary column gas-chromatog, method with thermoionic detection was a suitable method for detg. I in the low nanogram range. Since this method could distinguish from decompn. products in model solns, and in (unspecified) biol. material, it is considered to be sufficiently precise for pharmacokinetic material, it is considered to be sufficiently precise for pharmacokinetic

114: 74595s Resolution of the enantiomers of omeprazole and some of its analogs by liquid chromatography on a trisphenyl: carbamoylcellulose-based stationary phase. The effect of the caroamoyicelulose-based stationary phase. The effect of the enantiomers of omeprazole on gastric glands. Erlandsson, Per; Isaksson, Roland; Lorentzon, Pia; Lindberg, Per (Chem. Cent., Univ. Lund, S-221 00 Lund, Swed.). J. Chromatogr. 1990, 532(2), 305-19 (Eng). The enantiomers of omeprazole (I) and some of its

analogs have been sepd, on a chiral stationary phase comprising trisphenylcarbamoylcellulose coated on 3 aminopropyl silica. The nature of the supporting silica has a crucial effect on the sepns, obtained. The racemization half life of I was estd, to be 1.3 - 10° h In vitro tests on isolated gastric glands from rabbits showed that both enantiomers of omeprazole had an inhibitory effect on acid formation.

114: 74596t Analysis of amine metabolites by high-performance liquid chromatography on silica gel with a nonaqueous ionic

eluent, Cashman, John R.; Yang, Zi-Cheng (Dep. Pharm. Chem., Univ. California, San Francisco, CA 94143-0446 USA). *J. Chromatogr.* 1990, 532(2), 405-10 (Eng.). Analyses of tertiary amines, zimelidine, N,N-dimethylaniline, chloropheniramine, and brompheniramine, and their oxidative metabolites by HPLC was described. The mobile phase was perchloric acid and methanol. Metabolites were extd. with dichloromethane; detection was at 260 nm; the detection limit was 5-20 ng/mL and the recovery was 90 100%. 114: 74597u Triazolines, XXII. Chromatography of 1-phenyl=5-(4-pyridyl)-\(\Delta^2-1,2,3\)-triazolines and related 1,2,3-triazoles, a new class of anticonsulvant agents, Stevenson, P. J.; Hauksdotts, R. Kadaba, P. K.; Damani, I. A. (Chelsea Dep. Pharm., Kings Coll. London, London, UK SW3 6LX). J. Chromatogr. 1990, 53, 218-54. (Eng.). The spectrophotometry and HPLC anal of

ADD17014 (I) and of 3 putative metabolites [a triazole (II), aziridine (III), and an imine (IV)] were studied. I and IV unders breakdown at acidic or neutral pH, and so anal. procedures must be developed that will prevent ex vivo changes of these anticonvulsas. developed that will prevent ex vivo changes of these anticonvulues in blood samples. I and its metabolites can be detd, in rat blood by extn. into Et;O followed by sepn. on a reversed phase Spherical 5 ODS column, with a mobile phase composed of acctonitrile-Mos-H McIlvaine's phosphate buffer (pH 8.0, 0.005M) in the rate 30.30 40. The absorption max, of these compids, are 290, 250, 28, and 236 nm, for I, II, III, and IV, resp.

114: 74598v Sensitive method for the determination of amsulus in human plasma using high-performance liquid chromatograph with fluorescence detection. Socishi, Yoshiaki; Kobori, Mik Kobayashi, Shinichiro; Higuchi, Saburo (Appl. Pharmacol, Lak, Yamanouchi Pharm. Co., Ltd., Tokyo, Japan 174). J. Chromatograph 1990, 533, 291 6 (Eng).

detd. in human blood plasma by extn. into EtOAc, then into & HCI and back into EtOAc, evapn. to dryness, and reconstitutions an HPLC mobile phase consisting of K biphosphate-0.2M HPO-stated on a Nucleosil 5C_B column actionity in CT.55. Sepn. is effected on a Nucleosil 5C_B column equipped with an RF 535 fluorescence detector. Detection is the number of the method, was precise enough for carries and mg/mi., and the method was precise enough for carrying of pharmacokinetic studies in humans.

114: 74599w High-performance liquid chromatographic of the company of the com

termination of diacetolol enantiomers. Piquette Miller, L. I'oster, R. T. (Fac. Pharm. Pharm. Sci., Univ. Alberta, Edmonto. AB Can. T6G 2N8). J. Chromatogr. 1990, 533, 300-3 (Enantiomers of diacetolol (the chiral metabolite of acebutolol) and with S(+) 1 (naphthylethyl isocyanate, and normal phase BK (details not given). The method is suitable for pharmacolant

studies.
114. 74600q Simultaneous assay of propranolol, dikiase es metabolites of diltiazem in human plasma by liquid chromater raphy. Ververs, F. F. T.; Schaefer, H. G.; Lefevre, J. F.; Lope, M.; Derendorf, H. (Coll. Pharm., Univ. Florida, Gainevilla, R. 32610 USA). J. Pharm. Biomed. Anal. 1990, 8(6), 535-9 (bg. 1991). An HPLC method for the detn. of propranolal and diltiasses at diltiazem metabolites (deacetyldiltiazem, N-dimethyldiltiasses at human blood plasma is described. Alkalized samples with an internal std. imipramine were extd. with hexane-butanol (944, org. phase was reextd. with 5 mM H₂SO₄, and the new aq. phase at analyzed on a reversed-phase Nucleosil C₁₈ column. The math. analyzed on a reversed-phase functions Cis column. The phase consisted of acctonitrile methanol ammonium chloridae. ethylamine (24:40:36:0.08). UV detection was set at 238 and 25 and 2

of variation were acceptable. The method was used in a pharmal study in a healthy man given diltinzem and propranolol. 114. 74501r Direct injection analysis of diuretic and and flammatory drugs on a shielded hydrophobic phase can Santasania, C. T. (Supelco, Inc., Bellefonte, PA 16823 USA). As Chromatogr. 1990, 13(13), 2605-31 (Engl. A shielded hydrophose (SHP) column was used for the direct injection and data in blood serum. Gradient elution gave the best sepn; beams isocratic sepn, is possible. The mobile phase pH was found to major role in the sepn.; jonic strength had a lesser in the sepn. Quantitation of the drugs of interest was possible over sound of magnitude. Inter- and intra-day recoveries showed when 100%. A drug contg. serum sample was analyzed, with described method, and the results were compared to a minute. chromatog, method.

chromatog, method.

114: 74602s Quantitative determination of bonness a metabolites in biological fluids by HPLC. Belobordes, Rodionov, A. P.; Kosilova, E. E.; Ignatova, N. A.; Zalent, A.; Gritsenko, A. N.; Kolesnik, Yu. A. (IMMI, Moscou, Khim Farm. Zh. 1990, 24(11), 83-6 (Russ). A present proposed for quant, anal. of bonnesor (I), a new antistation of the proposed for proposed for proposed for quant, anal. agent, and its metabolites in biol. fluids by applying HPLC modes of prepg. biol. samples to be analyzed are described comparatively assessed. Optimal conditions are given for descent. The procedure for measurement and its metabolites in blood may be useful for phenomena, and biopharmacounted attributes. and biopharmaceutical studies.

114: 74603t D (Imuthiol) and phy-mass speci Scappaticci, B.; M.; Brazier, J. 69373 Lyon, F. A gas-chroma measure the reditionary sodium drug found to halbs, and its deuteromethyl deuteromethyl er Gas chromatog are obtained up applied for phar the dimer of DEI 114: 74604u Hi in rat plasma, with the plasma, with the plasma, with the plasma, with the plasma plas N-acetylcilastatin ear, reproducibl three fluids. at selected time etatin and N-s diestatin and ive diestatin are prese 114: 74605v Ster metabolites. Vol tich. Pharm., Univ J. Chromatogr. quantitate simultar well as to distinguis a single oral doss wanteers. The constant of the plasma protein) or a padient soln. on a (steprofen and flum and the moral) as (0.05 μg mL) ar And S-fenoprofen g oprofen conjug paring the control of Concus. o empared to parent they exceeds 1 and they exceeds 1 and they exceed to its 4'-hydron arenoprofen glucium arenoprofen glucium R- and S-4 nest completely e 14 74606w Simulate two dinitre wo dinitrate me that the state of the state were extd. on pentane (1:1). internal std. detection. The ag/mL) trinit ag/mL) trinit

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the drugs tested,

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3-[(4-mino-droxy-

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in n Non-1,389 Crystals from petr ether, mp 96-98". Citrate, C₁₆H₁₈NO C₃H₈O₅, ICT-46474, Kessar, Noltam, Nolvadex, Nourytam, Tamofen, Tamoxasta, Zemide. Unic, white, odorless crystalline powder, mp 140-142". Slightly sol in water, sol in ethanol, methanol, acctone. Hygroscopic at high relative humidities. Sensitive to uv light LD₅₀ in mice, rats (mg/kg). 200, 600 (p), 62.5, 62.5 (v), 3000-6000, 1200-2500 orally (Furi, Jordan). co-Form base, mp 72-74* from methanol co-Form citrate, $C_{16}H_{20}NO.C_6H_8O_7$, RCT-47699. mp 126-128*

DREAD CAL: Antiestrogen. Palliative treatment of breast

9217. Tamsulosin. (R)-5-[2][2-(2 Fthoxyphenoxy)eth silpminolpropyl] 2 methovyben; enexulpmannde; amsulosin C₈H₈N₂O₅S, mol wt 408.52 C 58.80°, H 6.91°, N 6.86°, O 19.58°, S 7.85°, Specific a₁ adrenoceptor antagonist. Prepn. K. Imat et al., Eur. pat. Appl. 34,432; adam, U.S. pat. 4,703,063 (1981, 1987 both to Yamanouchi). Pharmacology K. Honda et al., trch. Pharmacol. 328, 264 (1985), of racemate and enantiomers. K. Honda et al., ibid. 336, 295 (1987). HPI C. determin. in plasma: Y. Soeishi et al., J. Chromatog. 533, 291 (1990). Clinical trials in meturition difficulty. K. Kawabe, T. Nituma, Urol. Int. 25, 200 (1997). 42, 280 (1987), in benign prostatic hypertrophy: K. Ka-wabe et al., J. Urol. 144, 908 (1990).

(*)-Form hydrochloride, C₂₀H₂₆N₂O₅S HCI, YM-12617, mp 254-256*.

(R)-Form hydrochloride, LY-253451, YM 12617-1, YM 617, Harnal, mp 228-230 [6]²⁴ 4 0 (c = 0.35 m meth-

(S)-Form hydrochloride, 1M-12617-2, mp 228-230". [a][4] thinkap cat. In treatment of benign prostatic hyper-

9218. Tanacetin. [3a8 (3aa, 5a3, 6a, 9aa, 9bst)]-Decahy dro.6,9a-dihydroxy 5a-methyl 3,9 bistmethylene)naphtho [1,2-b]furan 2(3H) one; 1₀(5a-dihydroxy 6a, 7aH-schwa 4(15),11(1)-dien 6,12-ohde | C₁₀H₂₀O₂ mol wt 264-32 | C 68 16°a, H 7-63°a, O 24-21° | Isoln from seed, herb, and flowers of Fanacetum edgare 1 . Compositive Homolle, J. Pharm. Chim. 7, 87 (1848), Intetzky, Kuhne, Arch. Pharm. 271, 353 (1933). Suchy. Coll. Czech. Chem. Commun. 27,

1058 (1962). Structure and absolute config: Samek et al., ibid. 38, 1971 (1973).

Crystals, mp 205°. $[\alpha]_{D}^{22}$ +179.5° (c = 2.3 m ethanol).

9219. Tandospirone. (3an, 4i), 7ii, 7an) Hexahydro-2-[4-9.219. Tabdospirone. (3a), 3b, 7b, 7a). Itexanydro-2-ja-[4-(2-pyrimidinyl)-1-piperazinyl|butyl|-4,7 methano-1H-iso-indole 1, 3(2H) dione: (1R*,2S*,3R*,4S*)-N-[4-[4-(2-pyrimi-dinyl)-1-piperazinyl|butyl|-2,3-bicyclo[2-2,1]heptanedicar-boximide. C_BH_BN₅O_E mol wt 383-49. C 65-77%, H 7.62%, N 18-26%, O 8.34%. Serotomi (5-HT_L) receptor agoust Prepir K. Ishizumi et al., Eur. pat Appl. 82,402; culem. U.S. pat 4,507,303 (1983, 1985 both to Sumitomoly, alicentical Chem. Blattin, Bull. 30, 2388 (1991). Babaijoral cudem, U.S. pat 4,507,303 (1983, 1985 both to Sumitomo); ulem et al., Chem. Pharm. Bull 39, 2288 (1991). Behavioral pharmacology: C. A. Sannerud et al., Drug Ale. Depend. 32, 195 (1993). Clinical efficacy in treatment of bulimia: H. Tamai et al., Int. J. Obesity 14, 289 (1990). Clinical evaluation of potential adverse effects. M. Suzuki et al., Japan. J. Psychopharmacol. 13, 213 (1993); of abuse hability: S. M. I vans et al., J. Pharmacol. Exp. Ther. 271, 683 (1994). Review of pharmacology. P. A. Seymour et al., Prog. Clin. Biol. Rev. 361, 453-460 (1990).

Crystals from toluene/n-hexane, mp 112-113.5°, Citrate, $C_B H_B N_5 O_2 C_6 H_B O_3$, SM/3997, mp 169/5-170°, Hydrochloride, $C_B H_B N_5 O_2$ HCl, crystals from isopropanol, mp 227-229°, IHIRAP CAT: Anxiolytic; antidepressant.

9220. Tanghinigenin, (3,1,5,1,7,1)-7,8-Epoxy-3,14-dihydroxycard 20(22)-enolide. C_BH₃O₅; mol wt 388.50. C 71 11°; 11 8 30°; O 20.50°; Isoln from glucosides: Sigg et al., Helv. Chim. Acta 38, 166 (1955). Structure: Flury, Reichstein, Ann. Chim. (Rome) 53, 23 (1963). Flury et al., Helv. Chim. Acta 48, 1113 (1965). Toxicity study: Chem. Acta 48, 1113 (1965). Toxicity study: Chem. Henderson, J. Pharmacol. Exp. Ther. 111, 365 (1954).

Prisms from acetone - petr ether, mp 187-188*. 14.1° (c) = 1.138 an chloroform) us max: 217 nm (log € 4.22) = 1.D_{sq} (x) in cats. 1 mg/kg (Chen. Henderson).
 Acetate, C₂(H₂₄O₆, acetyltanghinigenin. Prisms from acetone + petr ether, mp. 241-243°. [α]²⁴/₂ +14.9° (c) = 1.075 in thloroform. (hloroform)

3 [C+O Acetyl-6-deoxy-3-O-methyl- α -t-glucopyranosyl)-oxyl- $C_{12}H_{bb}O_{10}$ - tanghinin. I tom the seed of Tanghinia

Consult the Name Index before using this section.