



DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration

[Docket No. FDA-2020-P-0438]

Determination That MICRO-K LS (Potassium Chloride) Extended-Release Liquid Suspension, 20 Milliequivalents/Packet, Was Not Withdrawn From Sale for Reasons of Safety or Effectiveness

AGENCY: Food and Drug Administration, HHS.

ACTION: Notice.

SUMMARY: The Food and Drug Administration (FDA or Agency) has determined that MICRO-K LS (potassium chloride) extended-release liquid suspension, 20 milliequivalents (mEq)/packet, was not withdrawn from sale for reasons of safety or effectiveness. This determination will allow FDA to approve abbreviated new drug applications (ANDAs) for MICRO-K LS (potassium chloride) extended-release liquid suspension, 20 mEq/packet, if all other legal and regulatory requirements are met.

FOR FURTHER INFORMATION CONTACT: Sungjoon Chi, Center for Drug Evaluation and Research, Food and Drug Administration, 10903 New Hampshire Ave., Bldg. 51, Rm. 6216, Silver Spring, MD 20993-0002, 240-402-9674, Sungjoon.Chi@fda.hhs.gov.

SUPPLEMENTARY INFORMATION: In 1984, Congress enacted the Drug Price Competition and Patent Term Restoration Act of 1984 (Pub. L. 98-417) (the 1984 amendments), which authorized the approval of duplicate versions of drug products under an ANDA procedure. ANDA applicants must, with certain exceptions, show that the drug for which they are seeking approval contains the same active ingredient in the same strength and dosage form as the “listed

drug,” which is a version of the drug that was previously approved. ANDA applicants do not have to repeat the extensive clinical testing otherwise necessary to gain approval of a new drug application (NDA).

The 1984 amendments include what is now section 505(j)(7) of the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 355(j)(7)), which requires FDA to publish a list of all approved drugs. FDA publishes this list as part of the “Approved Drug Products With Therapeutic Equivalence Evaluations,” which is known generally as the “Orange Book.” Under FDA regulations, drugs are removed from the list if the Agency withdraws or suspends approval of the drug’s NDA or ANDA for reasons of safety or effectiveness or if FDA determines that the listed drug was withdrawn from sale for reasons of safety or effectiveness (21 CFR 314.162).

A person may petition the Agency to determine, or the Agency may determine on its own initiative, whether a listed drug was withdrawn from sale for reasons of safety or effectiveness. This determination may be made at any time after the drug has been withdrawn from sale, but must be made prior to approving an ANDA that refers to the listed drug (§ 314.161 (21 CFR 314.161)). FDA may not approve an ANDA that does not refer to a listed drug.

MICRO-K LS (potassium chloride) extended-release liquid suspension, 20 mEq/packet, is the subject of NDA 019561, held by KV Pharmaceutical Co., and initially approved on August 26, 1988. MICRO-K LS is indicated for the treatment of patients with hypokalemia, with or without metabolic alkalosis; in digitalis intoxication; and in patients with hypokalemic familial periodic paralysis. MICRO-K LS is also indicated for the prevention of hypokalemia in patients who would be at particular risk if hypokalemia were to develop, e.g., digitalized patients or patients with significant cardiac arrhythmias, hepatic cirrhosis with ascites, states of aldosterone excess with normal renal function, potassium losing nephropathy, and certain diarrheal states.

In a letter dated October 8, 2010, KV Pharmaceutical Co. notified FDA that MICRO-K LS (potassium chloride) extended-release liquid suspension, 20 mEq/packet, was being discontinued, and FDA moved the drug product to the “Discontinued Drug Product List” section of the Orange Book. In the *Federal Register* of June 8, 2011 (76 FR 33310), FDA announced that it was withdrawing approval of NDA 019561, effective July 8, 2011.

Hyman, Phelps, and McNamara, P.C. submitted a citizen petition dated January 27, 2020 (Docket No. FDA-2020-P-0438), under 21 CFR 10.30, requesting that the Agency determine whether MICRO-K LS (potassium chloride) extended-release liquid suspension, 20 mEq/packet, was withdrawn from sale for reasons of safety or effectiveness.

After considering the citizen petition and reviewing Agency records and based on the information we have at this time, FDA has determined under § 314.161 that MICRO-K LS (potassium chloride) extended-release liquid suspension, 20 mEq/packet, was not withdrawn for reasons of safety or effectiveness. The petitioner has identified no data or other information suggesting that MICRO-K LS (potassium chloride) extended-release liquid suspension, 20 mEq/packet, was withdrawn for reasons of safety or effectiveness. We have carefully reviewed our files for records concerning the withdrawal of MICRO-K LS (potassium chloride) extended-release liquid suspension, 20 mEq/packet, from sale. We have also independently evaluated relevant literature and data for possible postmarketing adverse events. We have found no information that would indicate that this drug product was withdrawn from sale for reasons of safety or effectiveness.

Accordingly, the Agency will continue to list MICRO-K LS (potassium chloride) extended-release liquid suspension, 20 mEq/packet, in the “Discontinued Drug Product List” section of the Orange Book. The “Discontinued Drug Product List” delineates, among other

items, drug products that have been discontinued from marketing for reasons other than safety or effectiveness. ANDAs that refer to MICRO-K LS (potassium chloride) extended-release liquid suspension, 20 mEq/packet, may be approved by the Agency as long as they meet all other legal and regulatory requirements for the approval of ANDAs. If FDA determines that labeling for this drug product should be revised to meet current standards, the Agency will advise ANDA applicants to submit such labeling.

Dated: August 27, 2020.

Lowell J. Schiller,

Principal Associate Commissioner for Policy.

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