

Stability Determination of Two Different Brands (Galvus and Glavil) of Vildagliptin (50 mg) Tablets Available in Pakistan

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SUMMARY. The main objective of the research is to identify the various brands of vildagliptin having identical pharmaceutical formulation. Two different brands which were having identical active salt of vildagliptin were taken for this study and different physicochemical analysis was performed to ensure the quality and therapeutic level. Various test including weight variation, diameter test, thickness, disintegration and dissolution and results were compared with the standard. All standard were taken from USP (United States Pharmacopeia). All the parameters were according to the measured or specified standards as mentioned in USP. All results of weight variation test, thickness test and diameter test except disintegration test were according to mentioned criteria of USP which was not exceed than $\pm 1\%$. It was concluded from the study that among all tests only the time of disintegration was quietly differ but that was not altered the chemical or therapeutic property of that brand.

RESUMEN. El principal objetivo de la investigación es identificar las distintas marcas de vildagliptina que tienen una formulación farmacéutica idéntica. Para este estudio se tomaron dos marcas diferentes que tenían sal activa idéntica de vildagliptina y se realizaron diferentes análisis fisicoquímicos para asegurar la calidad y el nivel terapéutico. Varias pruebas que incluyen variación de peso, prueba de diámetro, espesor, desintegración y disolución y los resultados se compararon con el estándar. Todos los estándares se tomaron de la USP (Farmacopea de los Estados Unidos). Todos los parámetros estaban de acuerdo con los estándares medidos o especificados como se menciona en la USP. Todos los resultados de la prueba de variación de peso, la prueba de espesor y la prueba de diámetro, excepto la prueba de desintegración, estuvieron de acuerdo con los criterios mencionados de USP que no excedieron de $\pm 1\%$. Se concluyó del estudio que entre todas las pruebas sólo el tiempo de desintegración fue discretamente diferente, pero eso no alteró la propiedad química o terapéutica de esa marca.

KEY WORDS: disintegration, dissolution, pharmacopeia, vildagliptin, weight variation.

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