## 玉竹에 關한 抗癌性 Screening의 結果

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## Screening for Antitumor Efficacy from the Polygonatum officinale All in Korea

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## Cytotoxic activity on P388 cells

The MTT(3-{4,5- dimethylthiazol-2-yl}-2.5-diphenyltetrazolium bromide) colorimetric assay was performed in a 96-well plate. The blue formozan Produced by the mitochondrial dehydrogenase of viable cells was measured spectro photometrically. 100 $\mu$ l of RPM-1640 medium Suplemented with 5% fetal calf serum and 100 $\mu$ g/ml of kanamycine and containing mouse P388 leukemia cells (3×10<sup>4</sup> cells/ml) was added to each well. After over night incubation(37°C, 5% CO²),100, 30, 10, 3, 1, 0, 0.3 and 0.1 $\mu$ g/ml of sample solutions were added to the wells and the plates were incubated for 48h. Then, 20 $\mu$ l of MTT was added to each well and the plates were incubated for 4h. The resulting formazan was dissolved in 100 $\mu$ l of 10% SDS (Sodium dodecyl sulfate) containing 0.01 N HCI. Each well was mixed gently with a pipet for 1 or 2 min and the plate was read on a microplate reader (Tosoh MPR-A4i) at 540nm. The IC<sub>50</sub>( $\mu$ g/ml)value was defined as the concentration of sample which achieved 50% reduction of viable cells with respect to the control.

## 〈細胞毒性 檢定〉

培養細胞: P388 Leukemia Cells

(日本 암연구 Center, 化學療法部)

細胞數:3.0×10<sup>4</sup> Cells/mℓ의 細胞液을 96穴 Plate에 100μℓ/well 添加

培 地:RPMI 1640-2ME, 10% FCS

判 定:藥劑添加後,約 48時間 培養한 後,MTT試棄(5mg/mℓ)을 20μℓ/well 添加하여 4時間 培養後,10% SDS-0.01NHcl를 100μℓ/well를 加해서 MTT formazan을 溶解시켜,檢定群과 對照群과의 比色定量함으로써 判定한다.

그리고 生藥 extract  $30\mu g/m\ell$  濃度以下의  $1C_{50}$ 値가 나타난 것을 有効의 눈금으로 하고있다.

Cytotoxic Activities On P388 Cells

	0.1			95			92		
	0.3			95			92		
(%)				66			80		Z D
)/T/(	3			88			73		IE S
lm/Bri	10		<del>.</del>	7			58		Z Z
tion(	30			4			31		1 08
entra	001			5	*****		28		DRII
Crude Geographical Concentration(µg/ml)/T/C(%)	ICso 100			6.4			15.0		AND
	Zone			SUNNONG	MON		SUNNONG	WOW	OT-VAPOUR
	Drug	玉竹		九蒸九曝品			天然品	H ※ K	LED IN THE H
No. Scientific Name		Polygonatum	Officinale All.	① * HOT-VAPOUR	TREARED	PRODUCTS	NATURAL	PRODUCTS	* NINE TIMES BOILED IN THE HOT-VAPOUR AND DRIED IN THE SUN
No.				*			(3)		