

产品开发

报废 X—胶片替代聚丙烯酰胺凝胶支持膜的再生利用

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电泳技术在现代分子生物学科中广泛应用。我们在使用 pharmacia LKB Multipher I 型电泳槽过程中,常用到聚丙烯酰胺凝胶支持膜(简称 Gelbond PAG film)但因其为进口产品,订货周期长,价格昂贵且不能重复使用,为此使用它受到一定限制。我们摸索出用本院放射科报废的 X—光片替代 Gelbond PAG film 的简便易行且经济实惠的方法,现简介如下:

按照 LKB 公司提供的制胶模具,将 X—胶片剪成所需大小,浸于重铬酸钾强氧化剂中(重铬酸钾 12%,浓硫酸 13.8%)1 小时,自来水冲

洗去除黑色氧化银层。洗洁精液浸泡半小时去油污迹,自来水冲净后终显透明浓兰色。纯水浸泡 1 小时自然凉干或置 37℃ 温箱烘干。

一张 Gelbond PAG film 分亲水,疏水两面,亲水面用于吸附凝胶,使其在固定,染色,脱色过程中凝胶不脱落。我们做同等条件下试验,X 光片可达到同样效果,结果无差异,且胶片的淡兰色背景使带型更易清晰可见。

我们认为用 X—胶片替代 Gelbond PAG film,节省资金,效果良好,简便易行,值得推广。

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Abstract

Hepatitis C virus (HCV) RNA levels were semiquantited by the nested-polymerase chain reaction (PCR). The plasma levels of HCV-RNA were estimated as high when detected by one stege PCR and as low when detected only by a two stege PCR. The patients with a high HCV-RNA level were 68.0% who were infected by transfusion and 35.1% who were infected by non-transfusion ($p < 0.05$). The mean alanine aminotransferase (ALT) and aspartic aminotransferase (AST) levels of the high HCV-RNA group were $110.0 \pm 59.9 \mu\text{L}$, $96.1 \pm 49.3 \mu\text{L}$ respectively and low HCV-RNA group were $54.4 \pm 28.1 \mu\text{L}$, $64.4 \pm 20.0 \mu\text{L}$ respectively. The anti-HCV positive rate wasn't different between two groups.

Key words: Hepatitis C virus, Nested-polymerase chain reaction