OCR GCSE GATEWAY BIOLOGY A · J247

BIOLOGY



MARK SCHEME

B6.3 MONITORING AND MAINTAINING HEALTH (PACK 2)

SCORE	PERCENTAGE
/10	%

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Mark Scheme

Question			Answer/Indicative content	Marks	Guidance
1		i	genetic engineering / genetic modification ✓	1 (AO1.1)	ALLOW GM / Gene Therapy
		ii	worried about possible side effects / ethically / morally / religiously wrong ✓	1 (AO3.2a)	IGNORE playing God / not natural
			Total	2	
2		i	Any four from: plasmid used to insert the gene ✓ restriction enzyme to cut open the plasmid / for removing the gene ✓ ligase enzyme to insert the gene / join ends of gene and plasmid ✓ correct reference to sticky ends ✓ correct reference to selection using antibiotic markers ✓	4 (AO4 x 1.1)	enzyme and role must be correct link
		ii	idea (this method) does not use mice / ORA ✓ people may think original method is cruel / unethical / killing mice ✓	2 (AO2.1)	ALLOW does not use animals IGNORE references to religion/playing god etc.
		iii	to repeat the work / make sure it is reproducible ✓ to make sure it worked / was safe ✓	2 (AO2 x 1.1)	ALLOW make sure work was valid ALLOW check for errors/mistakes ALLOW was correct ALLOW was reliable ALLOW was ethical ALLOW make sure work was original / authentic ALLOW recognise significance of work ALLOW to improve quality of report/published work
			Total	8	

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